DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE E 828 DMEA NO. 3647

Application (Denied
(Withdrawn
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
✓ Reports of Royalty Review
✓ Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
✓ Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
✓ Contract Amendments (latest on top)
✓ Contract with all exhibits and annexes
✓ Owner's Consent to Lien
Subordination Agreement
✓ Leases and assignments of leases
✓ Application and attachments
(3) Envelope for maps

Right Side

✓ Project summary
✓ Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

✓ Final Field Team Report (Tab)
✓ Operator's Final Report
(2R) ✓ Interim Reports
(2R) ✓ Operator's monthly reports and all attachments (latest on top)
✓ On-site Exam Report(s) (Tab)
(4) ✓ Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

Right Side

✓ Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E838, Docket DMEA-3647 (mercury), dated July 5, 1955, with

C. A. Coppin
50 East 4500 South
Salt Lake City, Utah

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Redbird Quicksilver Mine located in Pershing County, Nevada, during the period June 4, 1959, through October 1, 1962.

A certification of discovery or development was issued on August 20, 1958, and, in accordance with Article 7 and Amendment No. 2 of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 12 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated March 7, 1958, indicated accepted costs under the exploration contract amounting to $31,226.00 with the Government's contribution on a 75 percent basis being $23,419.50.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review established no sales subject to the Government's royalty subsequent to the period covered by a prior Report of Royalty Review which found the sales subject to the Government's royalty through June 3, 1959, to be $6,026.69. The royalty account as of June 3, 1959, was:

Total Royalty Payable	$301.32
Total Royalty Paid	214.20
Balance of Royalty Due	$ 87.12

As of October 1, 1962, the royalty account of this project was found to be:

Total Royalty Payable	$301.32
Total Royalty Paid	301.32
Balance of Royalty Due	$ -0-

E. D. Talbert

E. D. Talbert, OME Auditor

November 1, 1962

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

This contract provides that the Operator, as principal if the producer or as surety if not the producer, shall pay to the Government a percentage royalty on all minerals produced from the land thereunder. The land consists of the Red Bird and Red Bird No. 1 unpatented claims located in secs. 28 and 33, T. 27 N., R. 34 E., M.D.B. & M., Antelope Springs (Relief) district. At the time the contract was executed the Operator was in possession by virtue of a 5-year lease granted on January 5, 1955, by Llewellyn A. Young, 340 Main Street, Lovelock, Nevada, owner of a one-half interest, and five owners of the other one-half interest. In consideration of the contract the lessors executed a Consent to Lien.

Exploration work under the contract was completed in February 1958. From production during the exploration period and shortly thereafter, 26 flasks of mercury were retorted and sold between September 6, 1956, and June 5, 1958, in the name of the Operator and the Redbird Leasing Company to Quicksilver Products, Inc., 407 Sansome Street, San Francisco 11, California. These sales aggregating $6,026.69 are covered by a prior Report of Royalty Review dated June 12, 1959. An $87.12 royalty balance due the Government, as indicated by that review, was paid to the Government by the Operator on June 24, 1959.

On July 5, 1958, the Operator turned its lease over to the Minerals Exploration Company (a/k/a Meadows Exploration Company), c/o Rush Meadows, 1065 Cornell Street, Lovelock, Nevada. After intermittent operations, during which no ores were produced, the mine was closed down in November 1958. Subsequent examinations of the property and inquiries by OME regional representatives disclosed no further activity through June 30, 1959.

In an October 1, 1962, reply to a MME Form 63 inquiry, Llewellyn A. Young, signing as "owner", indicated that neither production nor change in property status had occurred since April 13, 1959.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) The files indicate that all sales of production have been accounted for;
(2) Operations on the property were discontinued in November 1958; and

(3) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

JUN 16 1959
O.M.E.

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed all Finance Office copies of settlement statements with the Executive Officer, OME Field Team, Region II, Reno, Nevada, pertaining to Contract No. Idm-8838, Docket No. DMEA-3647 (Mercury), dated July 5, 1955, including Amendments Nos. 1 through 3, inclusive, with

C. A. Coppin
c/o Mr. Llewellyn Young, Attorney at Law
340 Main Street
Lovelock, Nevada

for the purpose of determining the amount of royalties due the U. S. Government on sales of mercury from property known as the Redbird Quicksilver Mine, located in Pershing County, Nevada, during the period February 1, 1957 to June 3, 1959.

A certification of discovery or development was issued on August 20, 1958, and accordingly royalty is payable on all production from the land described in Article 2 and Annex 1 of the contract, and royalties are payable for a maximum period of 12 years from the date of the contract as stipulated in Amendment No. 2 of the contract. A Report of Review in lieu of final cost audit dated March 7, 1958, indicated acceptable costs under the exploration contract amounted to $31,226.00 with the Government's contribution on a 75 percent basis, being $23,419.50. The scope of review and reasons therefor are stated in the attachment to this report.

My review established the total sales of mercury for this period to be $3,169.49. Royalty due the U. S. Government at the contract of 5 percent is $158.49. A prior review made by this auditor for the period July 5, 1955 to January 31, 1957, found the sales as of the last date to be $2,857.20, which added to the sales for this period made a total of $6,026.69 as of June 3, 1959. The royalty account as of January 31, 1957, was

Total Royalties Due	$142.83
Total Royalties Paid	142.83
Balance Royalties Due	$ -0-

As of June 3, 1959, the royalty account of this project was found to be

Total Royalties Due	$301.32
Total Royalties Paid	214.20
Balance Royalties Due	$ 87.12

George Mayer

June 12, 1959

George Mayer, OME Auditor

DESCRIPTION OF THE REVIEW
AND STATEMENT OF JUSTIFICATION

Idm-E838 C. A. Coppin DMEA-3647

My review included a tabulation and recomputation of all mercury sales as shown in settlement statements, and a conference with the engineer who had made periodical inspections of the project.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(a) The production involved was incidental to exploration operations.

(b) The mine was idle when last visited by the Examining Engineer on November 5, 1958.

(c) The Examining Engineer is of the opinion that all sales of mercury produced during the period July 5, 1955 to April 14, 1959 for which settlement sheets have been released, have been properly accounted for.

(d) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to possible additional royalty which might be disclosed.

Note:

During the Examining Engineer's last visit to mine on November 5, 1958, he was informed that the mine was under lease to the Meadows Exploration Corporation of Lovelock, Nevada.

JUN 16 1959
O.M.E.

Check Sheet of Examining Engineer

JUN 16 1959
O.M.E

Operator's Name C. A. Coppin
C/o Mr. Llewellyn Young, Attorney at Law
Address 340 Main Street
Lovelock, Nevada

Exploration Contract No. Idm-E 838 Docket No. DMEA-3647

	Check One Yes	No
1. (a) Does the Operator stockpile ore subject to royalty repayment?		X
(b) If so, is segregation and identification procedure adequate?		
2. (a) Does Operator commingle production subject to DMEA royalties with exempt production?		X
(b) If so, do you consider the allocation of the commingled production equitable?		
3. (a) Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		X
(b) If so, are adequate records maintained on such material to protect the Government's interest?		
4. Do you consider the assay controls in effect are adequate?	X	
5. Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	X	
6. Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA royalties?	X	
7. Does the Operator buy from or sell to other Operators?		X

8. Comment on any item 2 (b) to 6 if answer is No.

On November 5, 1958, the mine was idle and under lease to the Meadows Exploration Corporation of Lovelock, Nevada.

Glenn G. Gentry
Mining Engineer

Date April 13, 1959

82448

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8-14	Holt	400
8-14	Chapman	400
8-14	Chambers	800
8/18	Long	140
8/18	Dwyer	140
8/19	Sellards	130
8/19	Lopez	130
8/19	Jackson	130
"	Johnson	110
		100
		220

INTERIOR DEPT.
AUG 15 1958
SOLICITOR

Amd'd Sol. Off.

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Mr. C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Pursuant to the provisions of Exploration Project Contract No. Idm-E838, executed July 5, 1955, (Docket No. DMEA 3647), as amended, hereinafter called the "Contract", between C. A. Coppin and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration.

The nature of said discovery or development is described broadly or indicated as follows:

Drifting, crosscutting, raising and winzing in and from the adit and main haulage levels of the Redbird Quicksilver mine have indicated an appreciable tonnage of mercury ore occurring in the form of pods, veinlets and disseminated crystals of cinnabar in tabular and pipe-like bodies along or adjacent to westerly and northwesterly-striking faults in shale-capped limestone and limestone conglomerate.

THE UNITED STATES OF AMERICA

Dated: AUG 20, 1958

By C. Mittendorf
Administrator, Defense Minerals
Exploration Administration

SPHOLT:foc 8-13-58
cc to: Code 400
110
800
Admr. R. File
Oper. Comm.
FT. REG. II
F. D. Lamb, USBM
J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

cc to: Finance Office
C. A. Fredell, GSA
Myron R. White
Douglas C. George
Kenneth R. George
E. R. Van Winkle
Llewellyn A. Young
Mrs. Alta Bingham

8623

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

C. A. Coppin
P. O. Box 578
Lovelock, Nevada

pertaining to Exploration Project Contract No. Idm-2635, Docket No. DMEA-3647, including Amendment Nos. 1, 2 and 3, for the months of July 1955 to February 1958, inclusive, covering a project for the exploration of mercury, on property known as the Redbird Quicksilver Mine, located in Pershing County, Nevada.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, verification of work performed by reference to Field Team reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

All of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$31,226.00
Exceptions:		
Prior to this review	$ -0-	
Herewith	-0-	
Total Accepted Cost		$31,226.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the Contractor by the Government in the amount of Twenty Three Thousand Four Hundred Nineteen and 50/100 Dollars, is valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

Amount payable to Operator	$ 23,419.50
Amount reimbursed	22,919.25
Balance due Operator	$ 500.25

George Mayer

March 7, 1958

George Mayer
Auditor

402

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DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

3647

C. A. Coppin
Lovelock, Nevada

pertaining to Exploration Project Contract No. Idm-2838, Docket No. DMEA-3647, including Amendment No. 1, for the months of July 1955 to June 1956, inclusive, covering a project for the exploration of mercury, on property, known as the Redbird Quicksilver Mine, located in Pershing County, Nevada. WSY

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

> All of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of units of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by contractor	$17,096.00
Exceptions	None
Total Accepted Cost	$17,096.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Twelve Thousand Eight Hundred Twenty Two and 00/100 Dollars:

** $12,822.00 **

is considered valid and proper, provided the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

George Mayer
George Mayer
Auditor

August 6, 1956

Auditor

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

FIRST REPORT OF ROYALTY REVIEW

I have reviewed all Finance Office copies of settlement statements with the Executive Officer, DMEA Field Team, Region II, Reno, Nevada, pertaining to Contract No. Idm-E838, Docket No. DMEA-3647 (Mercury), dated July 5, 1955, including Amendment No. 1, with

C. A. Coppin
Lovelock, Nevada

for the purpose of determining the amount of royalties due the U. S. Government on sales of mercury from property referred to as the Redbird Quicksilver Mine, located in Pershing County, Nevada, during the period July 5, 1955 to January 31, 1957.

My review included a tabulation and recomputation of all mercury sales settlement statements, a conference with the engineer who had made periodical inspections of the exploration project, and a review of the status of the contract as shown in the attached Exhibit "A".

This review was made in lieu of an on-site audit of the operator's accounts and records for the following reasons:

(a) The production involved was incidental to the exploration operations.

(b) The examining engineer is of the opinion that all sales of mercury during the period July 5, 1955 to January 31, 1957, for which settlement statements have been released, have been properly accounted for.

(c) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

The review established the total sales of mercury for this period to be $2,857.20. Royalty due the U. S. Government at the contract rate of 5 percent is $142.83. The royalty paid and balance due are as follows:

Total Royalty Due	$142.83
Total Royalty Paid	142.83
Balance of Royalty Due	$ -0-

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DATE	INITIALS	CODE

February 26, 1957

George Mavor, Auditor

Exhibit "A"

Status of Contract No. Idm-E838, Docket No. DMEA-3647

C. A. Coppin

The project has not been certified, but the contract provides that, regardless of any certification of discovery or development, royalties are due the Government on any production from land described in Article 2 of the contract from the date thereof until total amount of the Government advance had been repaid, without interest, or until the lapse of time within which certification of discovery or development may be made whichever occurs first. A Report of Review in lieu of final cost audit dated August 6, 1956, indicated accepted costs under the exploration contract amounted to $17,096.00 with the Government's contribution on a 75 percent basis, being $12,822.00.

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DATE	INITIALS	CODE

Check Sheet of Examining Engineer

Operator's Name C. A. Coppin

Address Lovelock, Nevada

Exploration Contract No. Idm-E838 Docket No. DMEA-3647

	Check One Yes	Check One No
1. (a) Does the Operator stockpile ore subject to royalty repayment?		X
(b) If so, is segregation and identification procedure adequate?		
2. (a) Does Operator commingle production subject to DMEA royalties with exempt production?		X
(b) If so, do you consider the allocation of the commingled production equitable?		
3. (a) Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		X
(b) If so, are adequate records maintained on such material to protect the Government's interest?		
4. Do you consider the assay controls in effect are adequate?	X	
5. Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	X	
6. Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA royalties?	X	
7. Does the Operator buy from or sell to other Operators?		X

8. Comment on any item 2 (b) to 6 if answer is No.

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DATE	INITIALS	CODE

S. Ricker
Mining Engineer

Date 2/13/57

82448

Government's copy

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EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA-3647

AMENDMENT NO. 3

It is agreed this 27th day of January, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and C. A. Coppin, that Contract No. Idm-E838, Docket No. DMEA-3647, dated July 5, 1955, as amended, is further amended, effective December 31, 1957, as follows:

1. In Article 3, the time for completion of the work is further extended, from January 1, 1958, to May 1, 1958.

2. In Exhibit "A," under the heading Description of the Work, Stage III (added by Amendment No. 2):

(a) Item (c) is revised to read as follows:

"(c) From the most favorable horizon along the raise, drift northwesterly or southeasterly, or in both directions (see Figs. 4 and 6), for not more than 215 feet total drifting. The size of drift or drifts shall be not less than 5 feet by 7 feet in the clear."

(b) A new item (d) is added as follows:

"(d) From the northwesterly face of the Young-Macabee stope, at sill elevation plus approximately 94 feet, drift northwesterly along the mineralized zone for a distance not to exceed 85 feet."

The changes made by this Amendment are shown on the map entitled, "Figure 4 (revised), Redbird Quicksilver Mine, Pershing County, Nevada," attached to and made a part of this Amendment.

This Amendment shall not be construed to increase the estimated cost of the project nor the aggregate total amount which the Government may be required to contribute.

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

C. A. COPPIN

Rubin
Denyer
Holt
Martin
Chambers
Selfridge
Johnson

additional 100 feet along the vein (shown on Figs. 4 and 6). The total footage for raising shall not exceed 165 feet and the size of the raise shall be not less than 4 feet by 7 feet in the clear.

(c) From the most favorable horizon along the raise, drift northwesterly or southeasterly, or in both directions, (see Figs. 4 and 6), for not more than 300 feet total drifting. The size of drift or drifts shall be not less than 5 feet by 7 feet in the clear.

5. In Exhibit "A", under the heading Estimated Costs of Project, the following words and figures are deleted:

"Estimated Total Fixed Unit Costs $17,180.00

Government participation @ 75% $12,885.00"

and the following words and figures are substituted:

"STAGE III

345 feet of crosscutting and drifting @ $29.00/ft.	$10,005.00	
165 feet of raising @ $25.00/ft.	4,125.00	
		$14,130.00
Estimated Total Cost of Project		$31,310.00
Government participation @ 75%		$23,482.50"

Executed in sextuplicate the day and year first above written.

UNITED STATES OF AMERICA

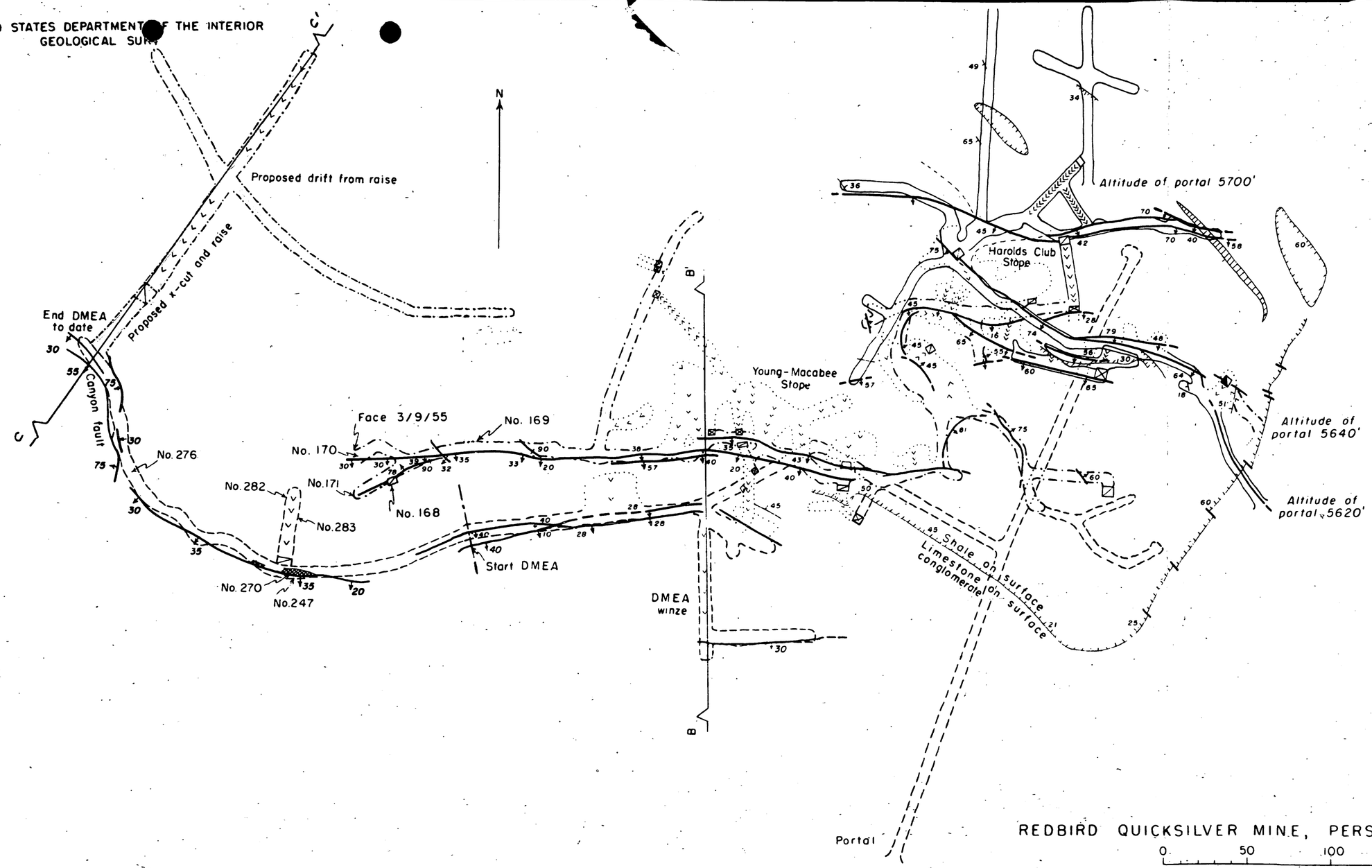
By C. McMeedors
Administrator, Defense Minerals
Exploration Administration

C. A. Coppin

Hardy 2/25/57
Dwyer
Supervisory Office
Hoff
Martin
Talbert
Johnson

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
Idm E-838
(MERCURY)



EXPLANATION

Shale

Limestone and limestone conglomerate

Contact on surface showing dip

Fault, showing dip
Dashed where approximately located

Strike and dip of beds

Outline of stope

Chevrons point down incline
5' vertical intervals

Head of raise or winze

Foot of raise or winze

Head of shaft

Haulage level

30 feet above haulage level

70 feet above haulage level

No. 168
Sample number

REDBIRD QUICKSILVER MINE, PERSHING COUNTY, NEVADA

0 50 100 150 Feet

Figure 4

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA-3647

JUSTIFICATION FOR AMENDMENT NO. 3

The Operator requested and the Field Team examiners, in an Interim Report of December 20, 1957, recommended that 85 feet of drifting, authorized by the Contract, and remaining unused, be transferred to permit driving a drift northwesterly from the northwest end of the Young-Macabee stope, at sill elevation approximately plus 94 feet, along a mineralized zone containing Cinnabar, and having a reasonable probability of discovering a significant ore body.

This Amendment No. 3 has been prepared to authorize the requested transfer of drift footage.

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DATE	INITIALS	CODE
3/14	C	220
3/21	B	215
		225

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA-3647

AMENDMENT NO. 2

It is agreed this 1st day of March, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and C. A. Coppin, that Contract No. Idm-E838, (Docket No. DMEA-3647), dated July 5, 1955, as amended, is further amended, effective July 1, 1956, as follows:

1. The time for completion of the work is extended from July 1, 1956, to January 1, 1958.

2. In Article 5 of the Contract the estimated total cost of the project is changed from $17,180.00 to $31,310.00, and the Government's contribution at 75 percent is changed from $12,885.00 to $23,482.50.

3. The maximum period for royalty payments and liens to secure the payment thereof is further extended from July 5, 1966, to 12 years from the date of the Contract (i.e., to July 5, 1967).

4. In Exhibit "A", under the heading Description of the Work, the following is added:

STAGE III

The following maps are attached hereto and made a part hereof:

"Figure 4, Redbird Quicksilver Mine, Pershing County, Nevada";

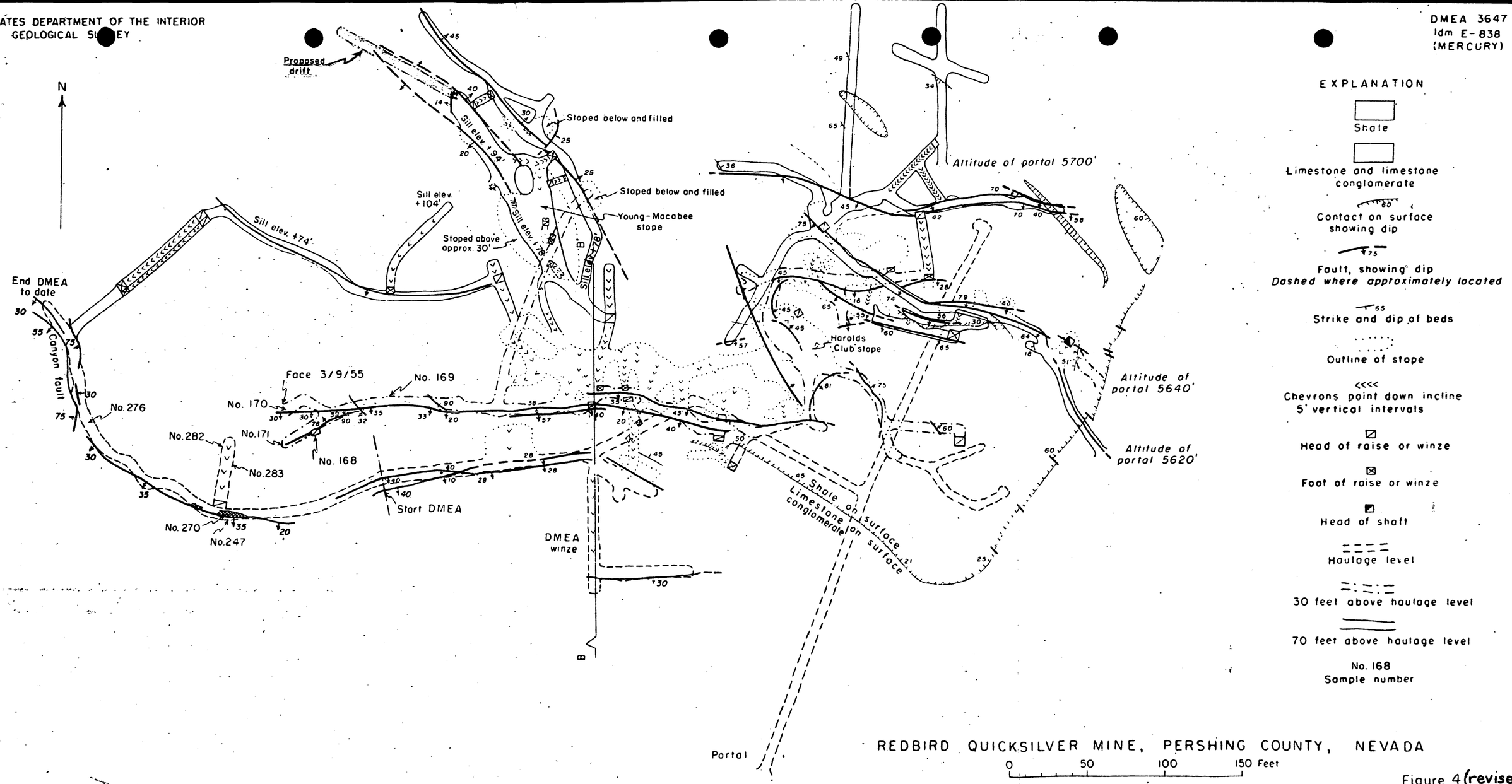
"Figure 6, Section Through Proposed Work, Redbird Quicksilver Mine, Pershing County, Nevada".

(a) Crosscut 45 feet northeasterly from a point at the west end of the main haulage drift, as advanced under Stages I and II of this Contract (as shown on Figs. 4 and 6). The crosscut shall be not less than 5 feet by 7 feet in the clear.

(b) Raise, at a 45 degree angle, northeasterly from the face of the crosscut driven under item (a) above, about 65 feet to intersect the vein at about the 100-foot slope distance point (shown on Fig. 6). Then raise an

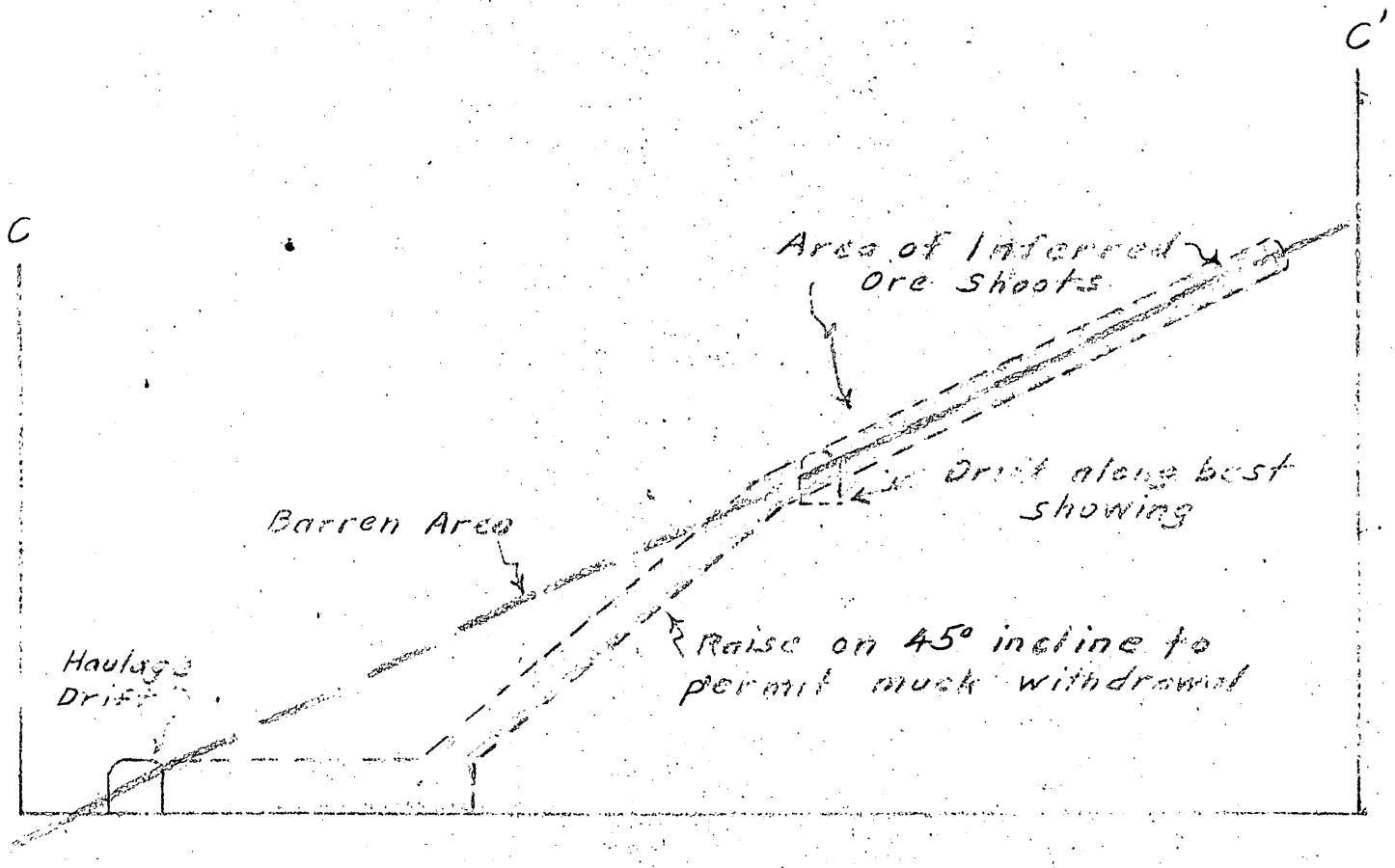
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
Idm E-838
(MERCURY)



REDBIRD QUICKSILVER MINE, PERSHING COUNTY, NEVADA

Figure 4 (revised)



Section through Proposed Work

Redbird Quicksilver Mine, Pershing Co., Nevada

Scale

0 30 60 90 120 150 Feet

Fig. 6

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D M E A
RECEIVED MAR 14 1957

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 14 1957
DATE | INITIALS | CODE

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA-3647

AMENDMENT NO. 2

JUSTIFICATION

The Operator of the above-captioned contract requested, on May 18, 1956, additional exploration assistance to sink a winze 100 more feet, and to drift 100 feet at the new bottom of the winze or at the most favorable location along the winze. The Field Team examiners, in a Supplemental Examination Report dated October 30, recommended that a certification of discovery be issued, and that additional exploration assistance be granted, to drive two inclined raises, with crosscutting and drifting, west of the presently explored area above the main haulage level. The Operator's proposal for additional sinking of the winze, and drifting therefrom, was not approved.

The Field Team, in forwarding the supplemental examination report, agreed that more work was warranted, and concurred with the examiners' recommendations, except for driving the proposed raise just west of the Young-Macabee stope.

This Amendment No. 2 is written to authorize the work recommended by the Field Team, as confirmed by letter of December 18, 1956, which states that this had been one of their best run small projects.

Docket copy

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MAR - 5 1956

EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-3647
G. A. GOPPIN

AMENDMENT NO. 1

It is agreed this 20th day of February, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration and G. A. Goppin, that Exploration Project Contract No. 14m-2232 (Docket No. DMEA-3647) dated July 5, 1955, is amended as follows:

A. On pages 1 and 2 of Exhibit "A" of the contract, under Description of the Work, Stage II is amended to read as follows:

Stage II

1. From the face of the adit level west drift driven under Stage I, drift an additional 33 feet in a westerly direction. The size of the drift shall not be less than 5 feet by 7 feet in the clear of timber.

2. Raise not in excess of a total of 100 feet at locations in the drift driven under this contract where mineralization is favorable. The location and footages allotted to raises shall have prior written approval of the Government. The size of the raises shall be not less than 4 feet by 7 feet in the clear of timber.

3. At the mineralized zone exposed in a short drift, 337 feet from the portal and 140 feet east of the DMEA point of beginning, sink an inclined winze not in excess of a total depth of 75 feet.

4. From the bottom of the winze or at the best location along the winze drift east, west or in both directions not to exceed a total of 50 feet. The size of the drift shall not be less than 5 feet by 7 feet in the clear of timber.

B. On page 2 of Exhibit "A" of the contract, the estimated costs of the project are amended to read as follows:

Estimated Costs of Project

Fixed Unit Costs
(The unit costs include all costs whatsoever necessary to complete the work)

Stage I

250 feet of drifting @ $29.00/ft.		$ 7,250.00

Stage II

33 feet of drifting @ $29.00/ft. (adit level)	$ 957.00	
100 feet of raising @ $25.00/ft.	2,500.00	
75 feet of sinking winze @ $60.00 /ft.	4,500.00	
58 feet of sublevel drifting @ $32.00/ft.	1,856.00	
39 samples analyzed for mercury @ $3.00 each sample	117.00	9,930.00
Estimated Total Fixed Unit Costs		$17,180.00
Government Participation @ 75%		$12,885.00

* * * * *

C. The time for completion of the work, as specified in Article 3 of the contract, is hereby extended from January 1, 1956, to July 1, 1956.

D. The period for royalty payments and lien to secure the payment thereof, provided for in the contract, is extended to July 5, 1966.

Endrit 2/14/
Lawyer
"Appd. Col. Off."

McMahon
Martin
Talbot
Johnson

This amendment shall not be construed to increase the estimated cost of the project nor the aggregate total amount which the Government may be required to contribute.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. W. Mitteendorf
Administrator, Defense Minerals
Exploration Administration

C. A. COFFIN

DOCKET
SURNAME
McMahon
Martin

JUSTIFICATION FOR AMENDMENT NO. 1
EXPLORATION PROJECT CONTRACT
DOCKET NO. BMA-3647
C. A. COFFIN

1. The last 40 feet of the adit level west drift encountered no cinnabar and both the Operator and field examiners were of the opinion that the possibilities of discovering ore did not justify continuation of the drift.

2. Two samples taken by the field examiners of a fault exposed in a short drift on the adit level, 397 feet from the portal and 140 feet east of the starting point of BMA Stage I drifting, showed 8 inches of cinnabar bearing calcite assaying 37.0 lbs. Hg/ton and 4.0 feet of calcite and limestone assaying 1.3 lbs. Hg/ton. This area being underneath one of the larger stopes of the mine, the field examiners were of the opinion that the downward extent of this mineralized zone should be investigated. Accordingly, they recommended the sinking of a 75-foot inclined winze and 60 feet of drifting therefrom.

3. Provisions for the costs of 60 mercury analyses for Stage I and Stage II sampling were made in Exhibit "A" of the contract. The MF-104 forms submitted by the Operator, covering all of Stage I work (250 feet of drifting) and 33 feet of drifting and 40 feet of raising in Stage II, did not include any assaying costs. Therefore, in drafting the attached amendment the assaying allowance for Stage I work was deleted. The allowance for mercury determinations may be needed during the revised Stage II progress and is provided for in the Amendment.

4. The increase from $29.00/ft. to $32.00/ft. for sublevel drifting from the winze is justified because of necessary double or triple handling of material, supplies, and rock or ore.

Docket
Code 400
Audit Div.
Admr. Read. File

Docket Copy

RECEIVED
JUL 15 1955

MF-200A
(Revised June 1954)

Docket No. DMEA 3647

Commodity Mercury

Contract No. Idm-E 838

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this JUL 5 1955 day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] C. A. Coppin

whose mailing address is Lovelock, Nevada

hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and 2 maps

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Nevada, County of Pershing, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] the entire interest in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] unrecorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: None

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: Consent to Lien of lessors

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

16—70618-1

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of mercury. The work to be performed is described in Exhibit "A." The Operator on or before August 15-1955 shall commence the work, and on or before January 1, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $17,100.00. The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $12,825.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

C. A. COPPIN

(Operator)

By C. A. Coppin

Lovelock, Nevada

THE UNITED STATES OF AMERICA

By C. P. Mitchendorf

Administrator, Defense Minerals Exploration Administration

Appd. Sol. Off.

Rutledge

Chamberlin

Martin

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Jefferson Selfridge

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

RECEIVED
JUL 15 1955

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA-3647

ANNEX I

The land referred to in Article 2 of the Contract consists of two unpatented lode mining claims located in Secs. 28 and 33, T. 27 N., R. 34 E., MDB&M, in the Antelope Springs district of south-central Pershing County, Nevada. The two claims are recorded in the Pershing County Courthouse at Lovelock, Nevada, in the books of mining locations as set forth below:

Red Bird	Book 2	page 588
Red Bird No. 1	Book 3	page 90

The Red Bird mine is approximately 20 miles southeast of Lovelock, Nevada. The location of the Red Bird claims is indicated on Figure 1, "Claim Map, Redbird Quicksilver Mine, Pershing County, Nevada," attached hereto and made a part hereof.

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMRA-3647

RECEIVED
JUL 15 1955

EXHIBIT "A"

Description of the Work

The exploration work on this project is indicated, in part, on the map attached hereto and made a part hereof entitled "Figure 2 - Geologic Map And Block Diagram of the Red Bird Mine, Pershing County, Nevada." The objective of this project is the exploration of the Red Bird mine area for mercury. The work is divided into two successive stages.

The Operator shall complete Stage I, and shall complete so much of the work under Stage II as is approved in writing in advance by the Government.

Representative samples shall be taken of all mineralized ground encountered. Each sample shall be divided into at least two parts, one of which shall be furnished to the Government.

All workings shall be timbered as necessary.

Stage I

As indicated on Figure 2, extend the west drift on the adit level 250 feet in a westerly direction. The size of the drift shall be not less than 5 feet by 7 feet in the clear.

Stage II

1. From the face of the drift driven under Stage I, drift an additional 250 feet in a westerly direction. The size of the drift shall be not less than 5 feet by 7 feet in the clear.

2. Raise not in excess of a total of 100 feet at locations in the drift driven under this contract where the mineralization is favorable. The locations and footages allotted to raises shall have prior written approval of the Government. The size of the raises shall be not less than 4 feet by 7 feet in the clear.

Estimated Costs of Project

FIXED UNIT COSTS

(The unit costs include all costs whatsoever necessary to complete the work.)

STAGE I		
250 feet of drifting @ $29.00/ft.	$7,250.00	
25 samples analyzed for mercury @ $3.00 each sample	75.00	$7,325.00
STAGE II		
250 feet of drifting @ $29.00/ft.	7,250.00	
100 feet of raising @ $25.00/ft.	2,500.00	
35 samples analyzed for mercury @ $3.00 each sample	105.00	9,855.00
ESTIMATED TOTAL FIXED UNIT COSTS		$17,180.00
GOVERNMENT PARTICIPATION @ 75%		$12,885.00

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator _____
Docket No. DMEA- _____
Contract No. Idm-E _____
Contract Date _____

CONSENT TO LIEN

RECEIVED
JUN 30 1955

To the United States of America:

Referring to that certain land in the County of Pershing, State of Nevada, described as follows:1/ RED MIND lode mining claim, recorded at Page 580, Book 2 of Mining Locations, Records of Pershing County, and RED MIND No. 1 lode mining claim, recorded at page 90, Book 3 of Mining Locations, Records of Pershing County, Nevada, both of which claims are situate in the Antelope Mining District of Pershing County, Nevada,

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

No Encumbrances Lessee Co. L. A. Gaggin, Lovelock, Nevada

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

_____

_____

_____

_____

_____

_____

_____

Dated this _____ day of _____, 195__.

Llewellyn Young [Seal] Kenneth R George

Reed Van Winkle [Seal]

Myron White [Seal]

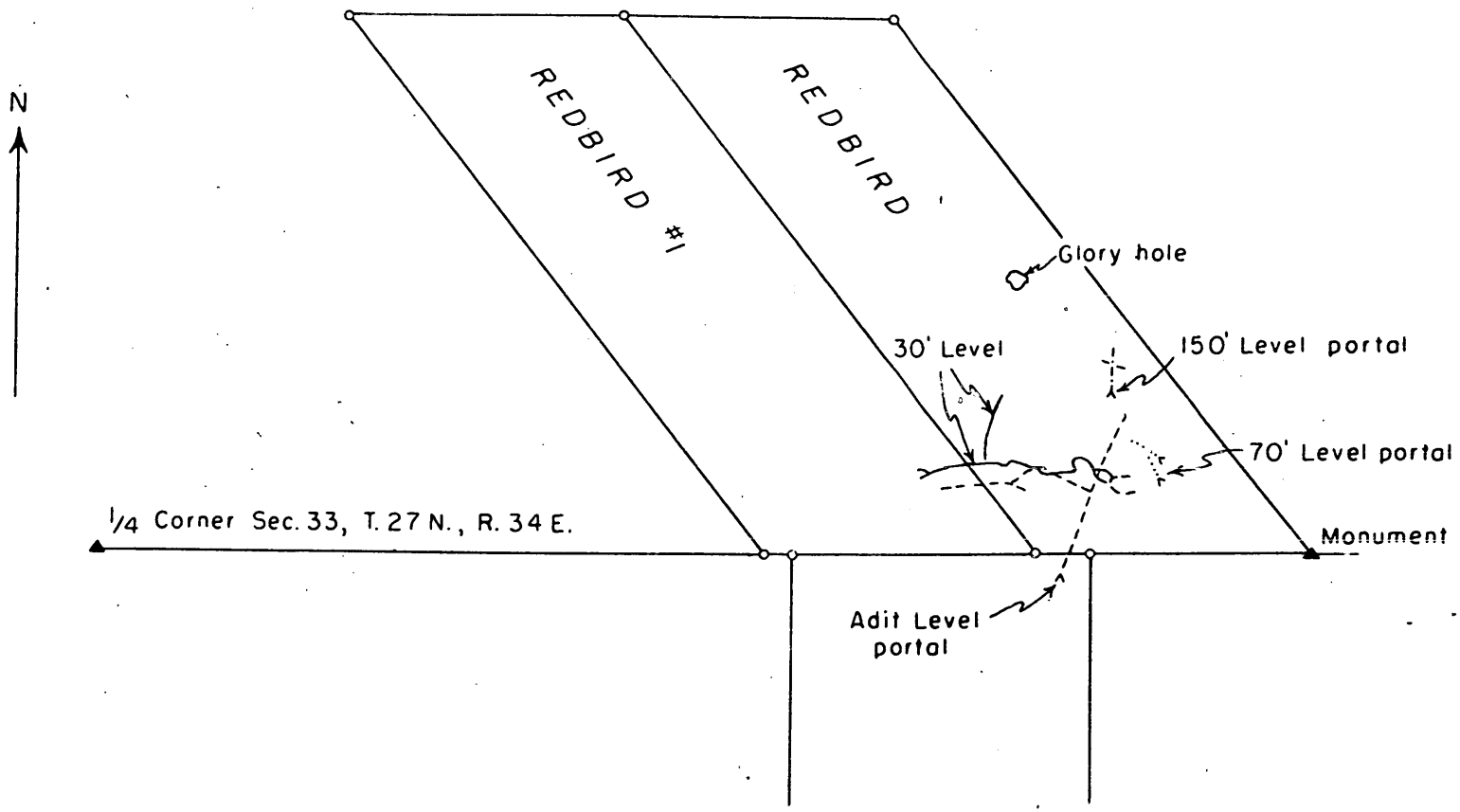
Colby Brigham

Douglas E George

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

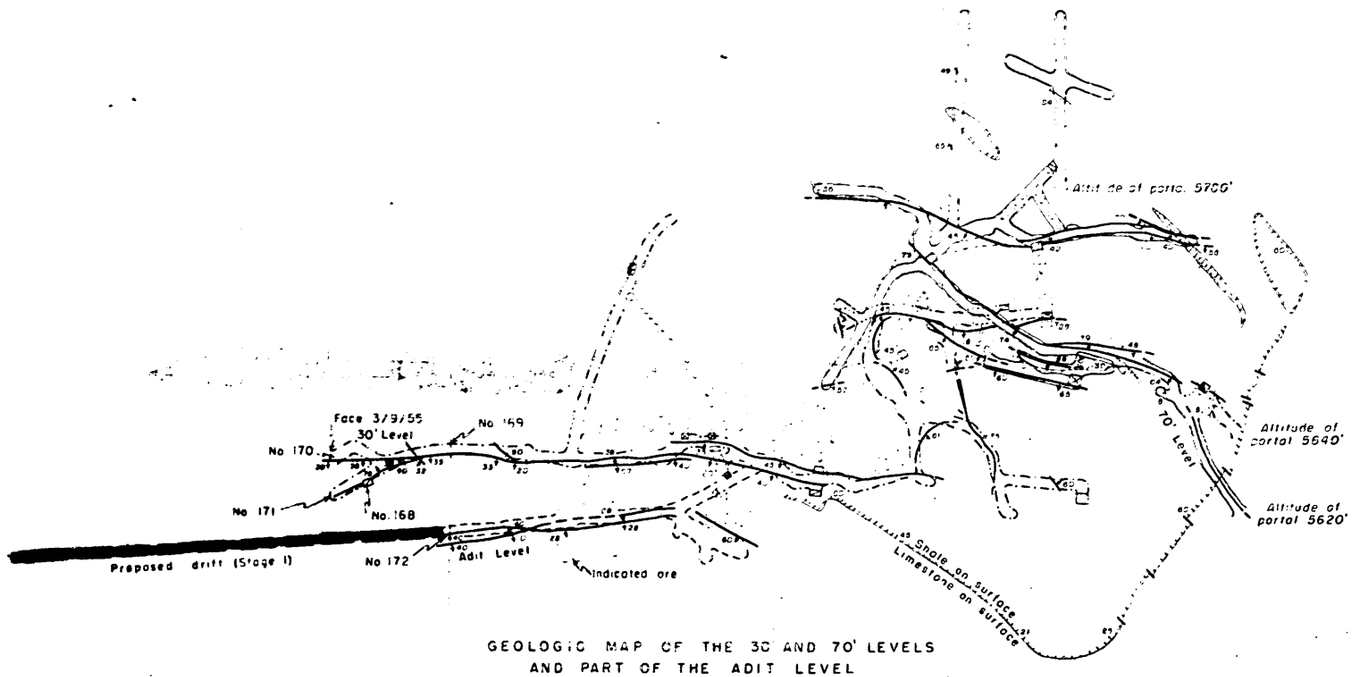
[Corporate Seal]



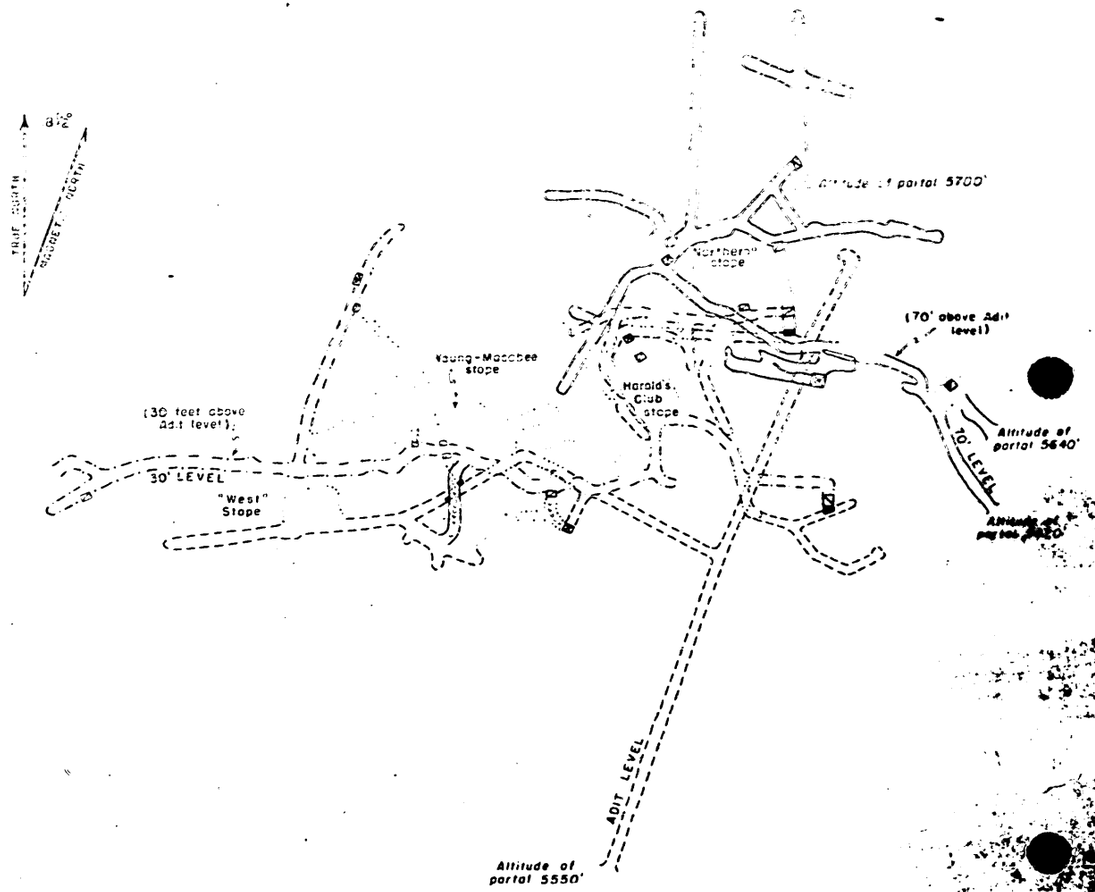
CLAIM MAP, REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

400 0 400 800 Feet

Figure 1

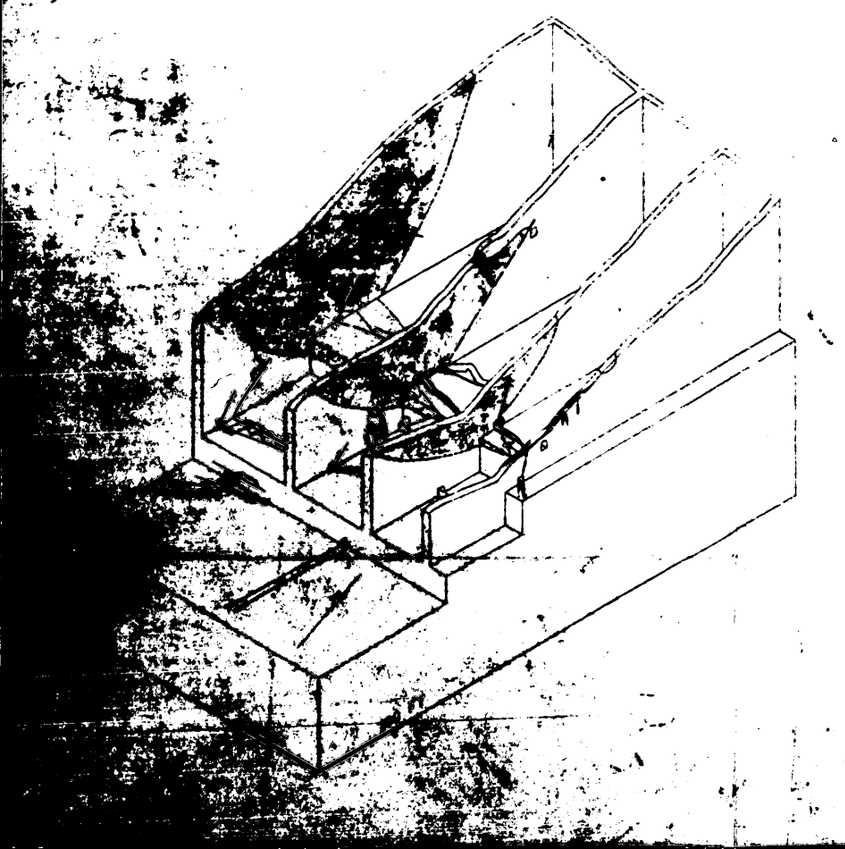


GEOLOGIC MAP OF THE 30 AND 70' LEVELS
AND PART OF THE ADIT LEVEL



PLAN OF THE UNDERGROUND WORKINGS

Base from Univ. Nev. Bull. vol. 30, no. 5 [illegible]
with additions by E.R.[illegible]



EXPLANATION

Shale

Limestone and limestone conglomerate undifferentiated

Contact on surface showing dip

Fault, showing dip
Dashed where approximately located

Strike and dip of beds

Outline of stope

Chevrons point down incline
5' vertical intervals

Head of raise or winze

Foot of raise or winze

Head of shaft

Haulage level

30 feet above haulage level

70 feet above haulage level

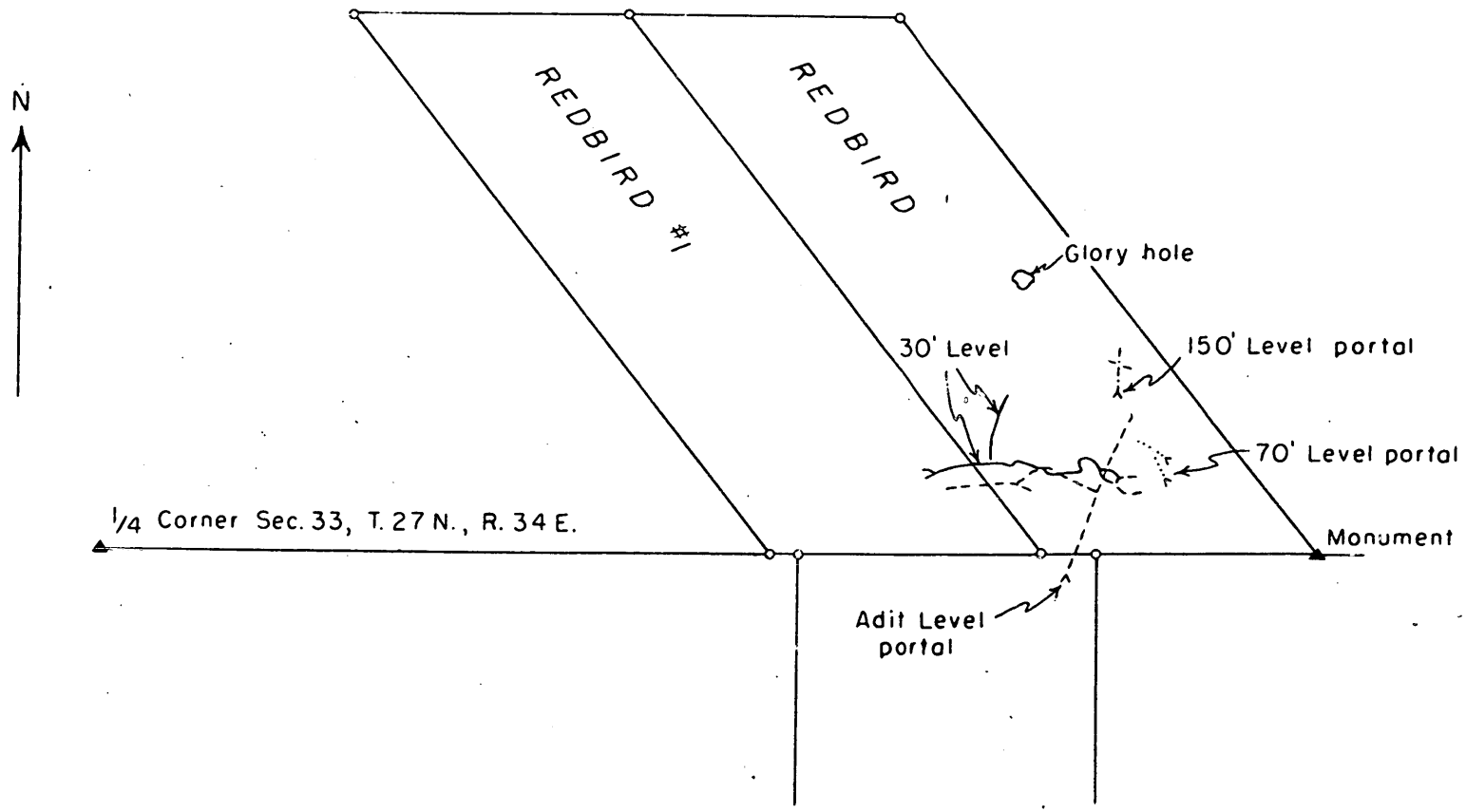
No. 168
Sample number

GEOLOGIC MAP AND BLOCK DIAGRAM OF THE RED BIRD MINE
PERSHING COUNTY, NEVADA

50 0 50 100 150 200 FEET

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
(MERCURY)



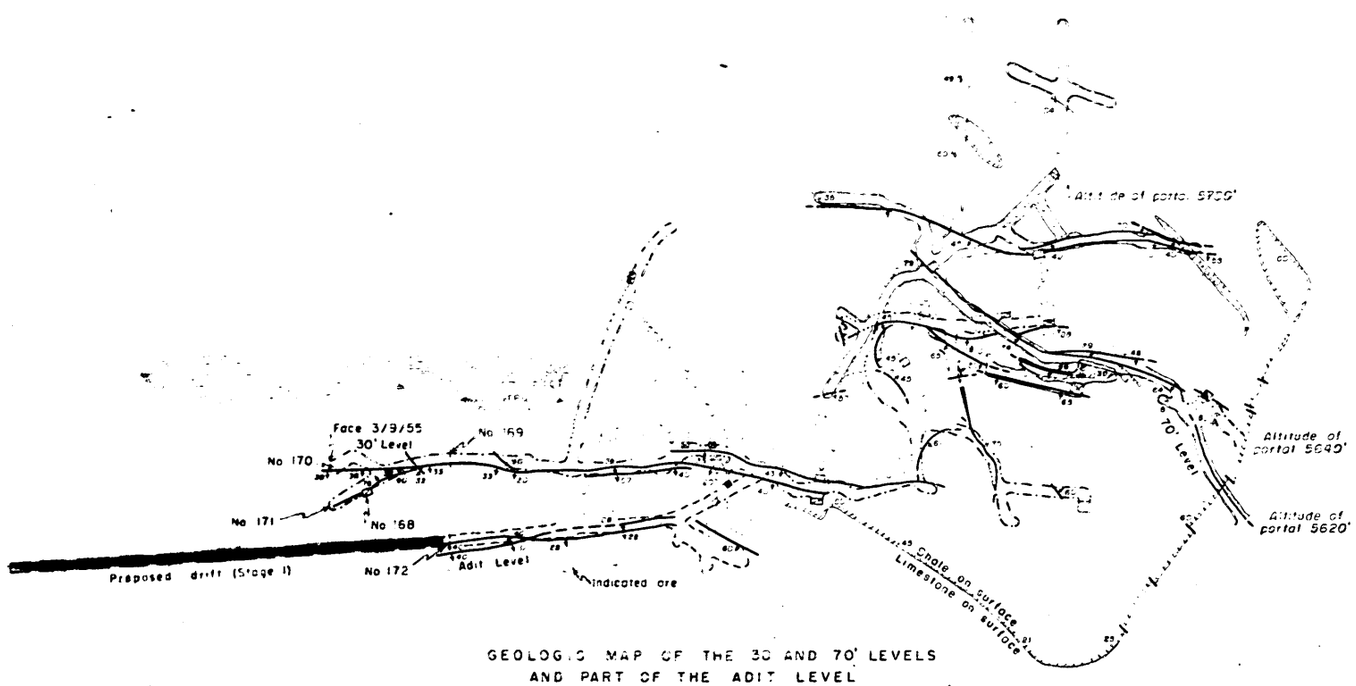
CLAIM MAP, REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

400 0 400 800 Feet

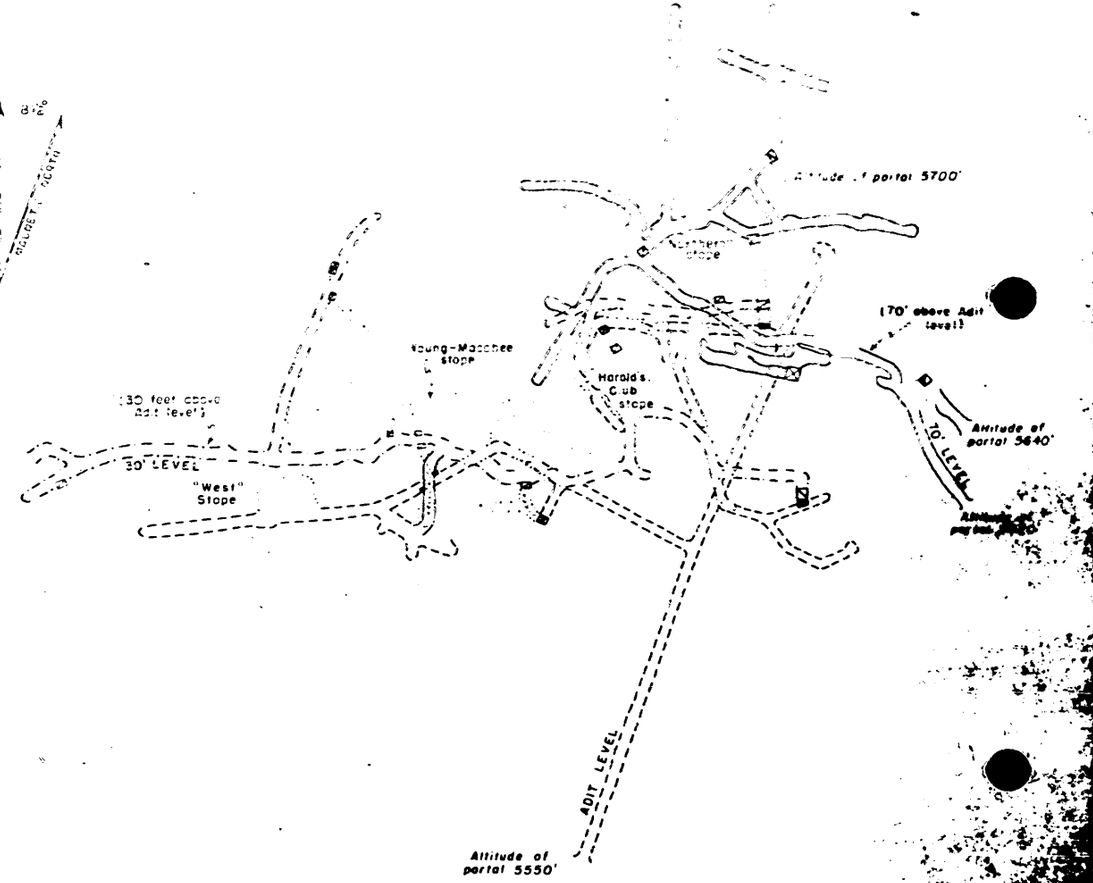
Figure 1

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

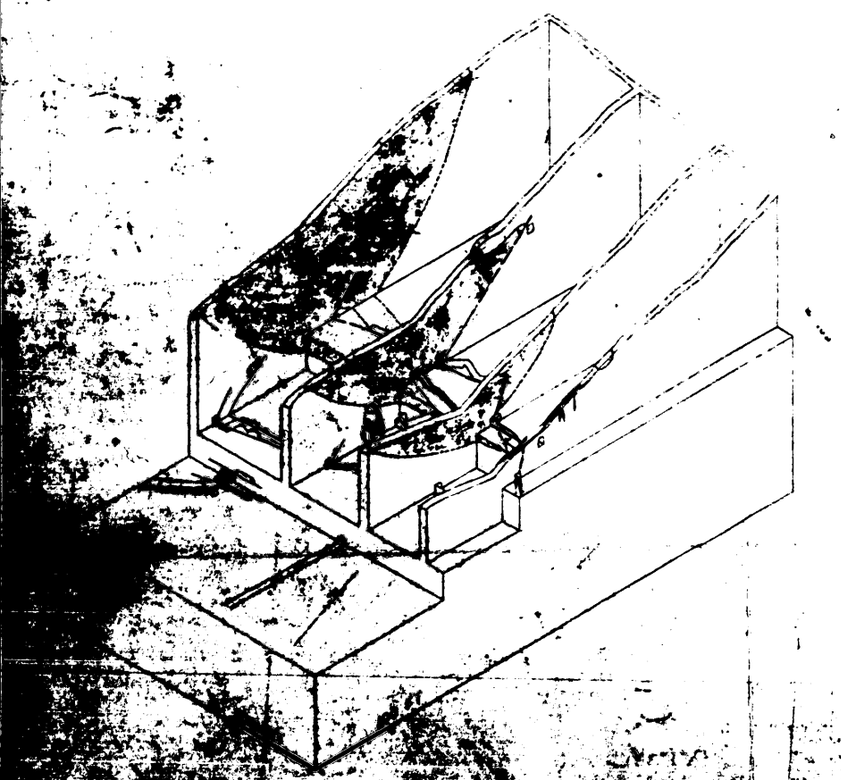
OMEA 3647
(MERCURY)



GEOLOGIC MAP OF THE 30 AND 70' LEVELS
AND PART OF THE ADIT LEVEL



PLAN OF THE UNDERGROUND WORKINGS



EXPLANATION

Shale

Limestone and limestone conglomerate undifferentiated

Contact on surface showing dip

Fault, showing dip
Dashed where approximately located

Strike and dip of beds

Outline of stope

Chevrons point down incline
5' vertical intervals

Head of raise or winze

Foot of raise or winze

Head of shaft

Haulage level

30 feet above haulage level

70 feet above haulage level

No. 168
Sample number

Base from Univ. Nev. Bull. vol. [illegible]
with additions by [illegible]

GEOLOGIC MAP AND BLOCK DIAGRAM OF THE RED BIRD MINE
PERSHING COUNTY, NEVADA

50 0 50 100 150 200 FEET

Not to be used

2/1

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 6/30

REFERRED TO:

1. 400
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record
..... Comment	of .....
..... Conference	..... Referring
..... Consideration	to.....
..... Filing	..... Reply for signa-
..... Instructions	ture of .....
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: .....

Check (X) before the items needing attention.

ROBERT E. ADAM

Initials of sender.

GPO 16—63815-1

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

RECEIVED
JUN 15 1955

WHEREAS, the undersigned, as owner, co-owners lessor, or seller has an interest in certain property in the State of Nevada, County of Pershing, described as follows:1/ RED BIRD lode mining claim, recorded at Page 588, Book 2 of Mining Locations, Records of Pershing County, and RED BIRD NO. 1 lode mining claim, recorded at page 90, Book 3 of Mining Locations, Records of Pershing County, Nevada, both of which claims are situate in the Antelope Mining District of Pershing County, Nevada.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ C. A. Coppin

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract or any amendment thereof shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract or any amendment thereof there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions ~~Paragraph 3 has been the same since the contract or any extension thereof has been in ten years have.~~

Dated this _____ day of _____, 195____.

Lewellyn Young [Seal]

E. R. Van Winkle [Seal]

Myron R. White [Seal]

Douglas L George

Otta Bingham

Kenneth R George

RECEIVED
JUN 1 1955

L E A S E

THIS LEASE is made by and between MYRON WHITE, 545 Bonnie Drive, El Cerrito, California 94530, DOUGLAS GEORGE, 285 Victory Road, Washington Terrace, Ogden, Utah, KENNETH GEORGE, 2111 West 3950 South, Roy, Utah 84067, ALTA BIGHAM, 2857 Wall Avenue, Ogden, Utah, REED VAN WINKLE, 745 - 36th Street 94805, Richmond, California, and LLEWELLYN A. YOUNG, Lovelock, Nevada 89419, hereinafter referred to as Lessors, and C. A. COPPIN, Lovelock, Nevada, hereinafter referred to as Lessee;

WITNESS THAT:

WHEREAS Lessors are the owners of the RED BIRD and RED BIRD NO. 1 lode Mining Claims, all duly of record in the office of the County Recorder of Pershing County, Nevada; and

WHEREAS Lessee desires to lease the said mining claims from Lessors;

NOW THEREFORE, in consideration of the premises and of the mutual covenants hereinafter set forth, it is agreed as follows:

I

The term of this Lease shall be five (5) years from the date of execution of this agreement.

II

Lessee shall pay Lessors a royalty of ten per cent (10%) of the net mill proceeds, or smelter returns, on all ores shipped from the subject premises.

III

Unless otherwise required, all royalty payments shall be sent by mail to the Lessors at the addresses given above, in the following proportions:

Myron White, one sixth (1/6)
Douglas George, one eighteenth (1/18)
Kenneth George, one eighteenth (1/18)
Alta Bigham, one eighteenth (1/18)
Reed Van Winkle, one sixth (1/6)
Llewellyn A. Young, one half (1/2)

IV

Lessee shall perform a minimum of twenty (20) shifts of labor on the premises during each month of the term of this Lease, and shall provide Lessors a written statement by the 10th day of each month to the effect that the required shifts have been performed for the preceding month; however, in lieu of doing twenty (20) shifts of work during any month of the term hereof, Lessee may pay Lessors a minimum royalty of One Hundred Dollars ($100) for the month. If by the 10th day of any month Lessors have received neither a $100 royalty payment or proof that the required labor shifts for the preceding month have been performed, this Lease shall be void, and Lessors may re-enter the premises, at their option.

V

Lessee shall work the said property in a miner-like fashion.

VI

Lessee shall timber said property at all times and at all points where necessary and proper in accordance with good mining practices, and shall repair all old timbering wherever it may become necessary.

VII

Lessors may enter upon all parts of said property at all reasonable times for purposes of inspection.

VIII

Lessors shall have access to all ore sales records during the term of this Lease.

IX

No payments made under this agreement shall be returned to Lessee in case of default of this agreement.

YOUNG & YOUNG
ATTORNEYS AT LAW
LOVELOCK, NEVADA

X

Lessee shall pay any and all taxes on the property and improvements thereon, including personal property taxes and bullion taxes; and also shall pay social security taxes, unemployment compensation insurance and other assessments or taxes as required by the State of Nevada and the United States Government.

XI

All mining equipment and machinery brought upon said property and all buildings or other improvements placed upon said property by the Lessee or his agent, shall be considered the personal property of the Lessee and may be removed from said mining property by the Lessee at any time during the term of this Lease or within ninety (90) days after the termination of this Lease, whether by default or otherwise.

XII

All timber placed underground in any mine workings and permanently affixed thereto shall be considered real property and may not be removed by the Lessee without the written permission of the Lessors.

XIII

Lessee shall comply with all provisions of the Nevada Industrial Insurance Act, including the payment of insurance premiums on all persons employed by the said Lessee.

XIV

Lessee shall be solely responsible for all labor, materials, and supplies purchased by the said Lessee to be used in the operation of the mining property and shall give notice of such responsibility to all persons with whom said Lessee may incur any obligation. Lessee shall post and maintain in conspicuous

places on said mining claims notice of Lessors' non-liability, and shall furnish proof of such posting by an affidavit.

XV

This agreement may be assigned by either party without the consent of the other party.

XVI

This Lease shall bind not only the parties hereto but also their respective successors, survivors, assigns, and personal representatives.

XVII

Lessee agrees to do all necessary annual assessment work during the term of this Lease. The Lessee will file necessary proof of this annual assessment work with the proper recording office.

XVIII

In the event that Lessee elects to forfeit this agreement Lessee shall give Lessors thirty (30) days' written notice, sent by mail to Lessors in care of Llewellyn A. Young at Lovelock, Nevada.

XIX

In the event of the default of the terms of this agreement Lessee shall be given thirty (30) days in which to correct such default after notification thereof by registered letter sent to Lessee at his address as set forth herein.

XX

Upon termination of this Lease, whether by default or otherwise, the Lessee shall surrender possession of said mining claims without notice, and all improvements below the collar of the

YOUNG & YOUNG
ATTORNEYS AT LAW
LOVELOCK, NEVADA

RECEIVED
JUN 15 1955

STATE OF UTAH)
) ss.
COUNTY OF WEBER)

On June 4, 1955, before me, Robert C. Coleman

a Notary Public, in and for said Weber County and State, personally appeared Kenneth George, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

Robert C. Coleman

Notary Public in and for the
County of Weber, State of Utah

My Commission Expires Nov. 12, 1956

STATE OF CALIFORNIA

County of Contra Costa } ss.

On May 23, 1955, before me, G. W. CURTIS, a Notary Public, in and for said Contra Costa County and State, personally appeared Reed Van Winkle

known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

(IMPRESS NOTARIAL SEAL OVER SIGNATURE OF NOTARY)

G. W. Curtis

Notary Public in and for the Contra Costa County of State of California

---

CERTIFICATE OF ACKNOWLEDGMENT—Individual

STATE OF IOWA, County of Webster ss.

On this 27th day of May A. D. 1955, before me, Geo. H. Rankhorn a Notary Public in and for the County of Webster, State of Iowa, personally appeared Myron White

to me known to be the identical person named in and who executed the foregoing instrument, and acknowledged that he executed the same as his voluntary act and deed.

IN WITNESS WHEREOF, I have hereunto signed my name and affixed my Notarial Seal the day and year last above written.

Geo H Rankhorn

My Commission Expires July 4, 1957

Notary Public in and for Webster County, State of Iowa.

RECEIVED
JUN 15 1955

STATE OF UTAH)
) ss.
County of Weber)

On May 31, 1955, before me, Vernard V. Smith a Notary Public, in and for said Weber County and State, personally appeared Douglas C. George, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

Vernard V. Smith
Notary Public in and for the
County of Weber, State of Utah
Residing at Ogden, Utah
My Commission Expires May 18, 1957

4

STATE OF NEVADA,
COUNTY OF PERSHING } ss.

On this 11th day of June A. D. one thousand nine hundred and fifty-five

personally appeared before me, MARY HELEN MARCUCCI, a Notary Public in and for Pershing County

C. A. Cappis & Llewellyn A. Young

known to me to be the persons described in and who executed the foregoing instument, who severally acknowledged to me that They executed the same, freely and voluntarily, and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have set unto my hand and affixed my Official Seal at my office in Lovelock, County of Pershing, State of Nevada, the day and year in this certificate first above written.

Mary Helen Marcucci
Notary Public in and for the County of Pershing, State of Nevada.

My Commission Expires March 19, ~~1954~~ 1958.

State of Utah
County of Weber

On this first day of June 1955, before me, Lyman D. Rees a Notary Public in and for the County of Weber, State of Utah, personally appeared ALTA BINGHAM to me known to be the identical person named in and who executed the foregoing instrument, and acknowledged that she executed the same as her voluntary act and deed.

In witness whereof, I have hereunto signed my name and affixed my Notarial Seal the day and year last above written.

Lyman D. Rees

My Commission Expires March 11, 1958

3

shaft, or beyond the entrance portal, and in all other shafts or tunnels within the limits of the claims shall be deemed fixtures to remain the property of Lessors.

IN WITNESS WHEREOF the parties hereto have executed this Lease this day of , 19 .

Myron White Lessor
Myron White

Douglas George Lessor
Douglas George

Kenneth George Lessor
Kenneth George

Alta Bingham Lessor
Alta Bigham

Reed Van Winkle Lessor
Reed Van Winkle

Llewellyn A. Young Lessor
Llewellyn A. Young

C. A. Coppin Lessee
C. A. Coppin

C. A. Coppin — Lessee

ING & YOUNG
ORNEYS AT LAW
ELOCK, NEVADA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

420 Custom House
555 Battery Street
San Francisco 11, Calif.

January 18, 1955

Memorandum

To: Defense Minerals Exploration Administration
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application Forms MF-103 - Mercury
Redbird Quicksilver Mine
C. A. Coppin
Lovelock, Nevada

Attached are three sets of MF-103 forms relative to above subject. The fourth set has been retained for our records.

Also attached is one copy of a lease on the property.

The Redbird has a creditable production record.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3647
Metal or Mineral Mercury
Date Received 1-24-55
Estimated Cost $19,500
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: C. A. Coppin Lovelock, Nevada

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Redbird and Redbird No. 1 Antelope Mining Dist. Pershing Co.

(*b*) State any mine name by which the property is known. Redbird Quicksilver Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Redbird and Redbird No. 1. Book 3 page 90 1/5/24

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore Cinnabar

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 10 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Jan 3, 1955

E. R. [illegible]
(Applicant)

By

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

DMEA Order 1
Accompanying sheet page
C.A.Coppin
Lovelock, Nevada

Bureau of Mines Minerals Administration
RECEIVED
JAN 24 1955

4(a) Physical Description

The Redbird Mine consists of approximately 2000 feet of tunneling, 600 feet of raises, 300 feet of inclineshafts together with stopes, dips and kidneys. At the present time we are running a drift and retorting cinnabar ore. Our facilities consist of three retorts, compressor, all necessary mining equipment, together with ore bins, ore shoots, tracks, and piping, also, trucks and all the necessary rolling equipment.

My interest in these operations is as lessee.

Assessibility of mine workings. The mine is wide open and in good shape for examination purposes.

4(b) Past Production.

Early day production is unknown. Production during World War II was 1,940 flasks. This record is in mining book"Cinnabar Production in Pershing County."

Current Production

We are now retorting 40 lb. ore. To date have shipped 5 flasks of quicksilver to the Quicksilver Producers Ass'n.

Ore Reserves

Considerable low grade furnace ore averaging around 12 pounds is available but this is not suitable for retorting.

4(c) Geologic Features.

Lime formation, cinnabar veins, bedding lime.

Our reasons for wishing to explore is to find out if we have enough ore to warrant a Gould furnace to work the low grade ore.

4(d) Accessibility of project

Access road 21 miles to Lovelock over a first class graveled road.

Distance to shipping- same as above.

Supply and residence points- same as above.

4(e) Availability of

Manpower----plenty
Materials-- good
Supplies--- good

Equipment----on hand
Water---hauled two miles
Power---gasoline

5(b) Proposed work

500 feet of drifting on vein system and cross cutting veins.
150 feet of raise
50 feet of sinking
(see accompanying map sketches)

5(d) Operating Experience of Applicant

Applicant, C.A.Coppin, has been in the mining business off and on since he started in Butte for the ACMCo. in 1915. He has worked at every job in the mine from mucker to superintendent. During World WarII he was superintendent of the Redbird Quicksilver Mine. He has a gold mine of his own that he works off and on. He has also been in the garage and service station business.

The applicant will also supervise the exploration operations. He is now leasing in the Redbird mine and is already drifting on one of the proposed drifts.

6(a) Estimate of costs. Independent contracts.

500 feet of drifting on vein system and cross-cutting veins	$29. per foot	$14,500
150 feet of raise	20. " "	3,000
50 feet of sinking	40. " "	2,000
		$19,500

6(b) Included in contract

6(c) Included in contract

6(d) Operating Equipment

1 Compressor 315 cu.Ft. Ingersoll-Rand
2 Drifters Denver Gardner
1 Ingersoll Rand 50 Stoper
2 Small jackhammers
5 Bars and arms
1 Ingersoll Rand Little Tiger tugger
3 Mining cars
300 ft. Air hose
300 ft. Water hose
Steel and bits for above equipment

1 Ford truck '47 1 1/2 ton
1 Dodge pickup

All necessary small tools to mine with and mechanical tools. If we had to rent all this equipment which I now have on the property it would cost $1200. a month.

6(e) none
(f) none

6(g) included in contract price
(h) " " "

CLARENCE L. YOUNG

YOUNG AND YOUNG
ATTORNEYS AT LAW
LOVELOCK, NEVADA

LLEWELLYN A. YOUNG

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
JAN 6 1955

January 7, 1955

To Whom it May Concern:

I, Llewellyn A. Young, owner of the Red Bird and Red Bird No. 1 Lode Mining Claims located in the Antelope Mining District of Pershing County, Nevada, both duly of record in the office of the Recorder of Pershing County, hereby give my permission to C. A. Coppin, Lessee, to obtain a Government loan for mining operations on said mining claims.

Llewellyn A. Young

Llewellyn A. Young

orm 7
5)

OFFICIAL FILE COPY

Date	Surname	Code
8-14	Holt	400
8-14	Chapman	400
		110
		100

August 14, 1958

Project Summary

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: General Summary of Contracts and Results Obtained
Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Operator: C. A. Coppin, P. O. Box 578, Lovelock, Nevada.

Operator's Property Rights: The Operator controls, by lease from the owners, Myron R. White, 545 Bonnie Drive, El Cerrito, California, Douglas C. George, 285 Victory Road, Washington Terrace, Ogden, Utah, Kenneth R. George, 2111 West 3950 South, Roy, Utah, Mrs. Alta Bingham, 2857 Wall Avenue, Ogden, Utah, E. R. Van Winkle, 745 - 36th Street, Richmond, California, and Llewellyn A. Young, Lovelock, Nevada, two unpatented lode mining claims, situated in secs. 28 and 33, T. 27 N., R. 34 E., M.D. B. & M., Antelope Springs Mining District, Pershing County, Nevada, and recorded in the Courthouse of Pershing County at Lovelock, Nevada, as follows:

Claim Name	Recorded Book No.	Recorded Page No.
Red Bird	2	588
Red Bird No. 1	3	90

Contract:

(a) Executed July 5, 1955, on Short Form, MF-200A (Revised June 1954).

(b) Completion period: Work to be started on or before August 15, 1955, and to be completed on or before January 1, 1956.

8623

(c) Work authorized:

Fixed Unit Costs

Stage I

Drifting, 250 feet @ $29.00/ft.	$7,250.00	
Assaying, 25 samples for Hg @ $3.00/each	75.00	
		$7,325.00

Stage II

Drifting, 250 feet @ $29.00/ft.	$7,250.00	
Raising, 100 feet @ $25.00/ft.	2,500.00	
Assaying, 35 samples for Hg @ $3.00/each	105.00	
		$9,855.00

Estimated Total Cost of the Project	$17,180.00
Government Participation @ 75%	12,885.00

Amendment No. 1, executed February 20, 1956, extended the time for completion of the work from January 1, 1956, to July 1, 1956, and extended the period for royalty payments from 10 years to 11 years. Sinking of 75 feet of inclined winze and drifting 58 feet from the bottom of the winze were authorized. By decreasing the amount of drifting previously allowed on the adit level under Stage II and the amount of assaying, the total estimated cost of the project, and the Government's participation, were not increased.

Amendment No. 2, executed March 1, 1957, again extended the time for completion of the work, from July 1, 1956 to January 1, 1958, and the period for royalty payment, from 11 years to 12 years, authorized crosscutting 45 feet northeasterly from the west end of the main haulage drift, raising 165 feet from the end of the new crosscut, and drifting 300 feet northwesterly and southeasterly along any favorable mineralized zone disclosed by the raising. The estimated cost of the project was increased to cover the work authorized under the new Stage III, as follows:

Stage III

Crosscutting and/or drifting, 345 feet @ $29.00/ft.	$10,005.00	
Raising, 165 feet @ $25.00/ft.	4,125.00	
		$14,130.00

Estimated Total Cost of the Project	$31,310.00
Government Participation @ 75%	23,482.50

Amendment No. 3, executed January 28, 1958, effective as of December 31, 1957, further extended the time for completion of the work, from January 1, 1958, to May 1, 1958, and revised the work authorized under Stage III to permit 85 feet of drifting, previously authorized, but not done, to be used to drive a drift along a mineralized zone in the northwest end of the Young-Macabee stope, at sill elevation plus 94 feet, at no increase in the estimated total cost of the project or the Government's participation therein.

(d) Work completed:

Drifting and/or crosscutting, 628 feet @ $29.00/ft.	$18,212.00
Drifting, sub-level, 58 feet @ $32.00/ft.	1,856.00
Raising, 265 feet @ $25.00/ft.	6,625.00
Sinking winze, 75 feet @ $60.00/ft	4,500.00
Assays, 11 for Hg @ $3.00/each	33.00

Total Accepted Cost of the Contract	$31,226.00
Government Participation @ 75%	23,419.50

Work on the project was started on July 19, 1955, and was finished in February 1958.

Audits: A review in lieu of final audit, dated March 7, 1958, was received March 6, 1958.

Reports: The Operator's undated Final Report was received in the office of the Field Team February 25, 1958, and in this office February 28, 1958. The Final Report of the Field Team was received July 25, 1958.

Past Production: Total production from the mine, prior to the date of the contract, is reported as about 2,270 flasks (76 pounds each) of mercury.

Present Production: Production since the date of the contract, from exploration and current operations, is reported as 26 flasks of mercury, from about 430 tons of ore.

Certification:

In agreement with the recommendation of the Field Team, a certification of discovery or development was issued on Aug., 20, 1958.

Comments: The project was conducted in an efficient and economical manner. The Operator furnished adequate engineering and geological reports. The project was established to explore for mercury in the Redbird mine claims, where it occurs in the form of pods, veinlets and disseminated crystals of cinnabar in tabular and pipe-like bodies along or adjacent to westerly- and northwesterly-striking faults in shale-capped limestone and limestone conglomerate. Reserves of mercury ore discovered by project work are estimated as a few tons of measured ore, averaging 30 pounds mercury per ton, 100 tons indicated ore and 500 tons inferred ore, both averaging 7 to 10 pounds mercury per ton, in addition to about 400 tons of ore mined during and since the period of the contract, from which 26 flasks of mercury were produced.

Thos. L. Chapman

Thos. L. Chapman, Acting Director
Division of Iron and Ferro-Alloys

SPHOLT/dlm 8-14-58
cc to: Code 400
Admr. R. File
Oper. Comm.
Mr. Johnson

MME Form 17
Mar. 59

OFFICE OF MINERALS EXPLORATION

~~500~~
~~120~~
~~140~~
~~100~~
220

WORK COMPLETED ANALYSIS

X Certified — After final audit or review report is received, prepare in duplicate. File original in official docket. Send copy to Code 210.

Operator: C. A. Coppin
Actual Cost:

State: California
Agreed Unit Cost X:

Final Report of Audit:
Commodity: Mercury
Docket No.: DMEA-3647

Final Report of Review: 3.7.58
Contract No.: Idm-E838

Type of Work (Use these categories only)	Authorized by Contract and Amendments		Completed and Paid for		Net cost after sale of Gov't. Property
	Units	Cost 1/	Units	Cost 1/	
	Feet	$	Feet	$	$
Drifting & Crosscutting	628	18,212.00	628	18,212.00	18,212.00
Drifting on sub-level	58	1,856.00	58	1,856.00	1,856.00
Raising	265	6,625.00	265	6,625.00	6,625.00
Shafts					
Winzes	75	4,500.00	75	4,500.00	4,500.00
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify) Assaying		117.00		33.00	33.00
Totals		$31,310.00		$31,226.00	2/ $31,226.00

1/ Round off to dollars.
2/ Net cost total must agree with final report of audit or review.

Prepared by Stephen P. Holt Date 1.28.63
Stephen P. Holt

52616

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/25/67		110
		220

SEP 28 1967

C. A. Coppin
c/o Mr. Llewellyn A. Young
Attorney at Law
340 Main Street
Lovelock, Nevada 89419

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-M838

Dear Mr. Coppin:

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development dated August 20, 1958, all minerals mined or produced from July 5, 1955, to July 5, 1967, were subject to the Government's royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the periods indicated.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region II
130

GLAult/a 9-25-67

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/25/67		110
		220

Mr. Kenneth George
2111 West 3950 South
Roy, Utah 84067

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

Dear Mr. George:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the undated Consent to Lien signed by you under the Defense Minerals Exploration Administration program.

Also enclosed are identical copies of this letter and enclosure for Alta Bingham and Douglas C. George, who signed the same Consent to Lien. If you know the proper addresses, we would appreciate you completing the addresses on the franked envelopes provided.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region II
130

GLAult /a 9-25-67

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/25/67		110
		220

Mr. Myron White
545 Bonnie Drive
El Cerrito, California 94530

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

Dear Mr. White:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the undated Consent to Lien signed by you under the Defense Minerals Exploration Administration program.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region II
130

GLAult/a 9-25-67

Identical letters to:

Mr. E. R. Van Winkle, 745 - 36th Street, Richmond, California 94805
Mr. Llewellyn A. Young, 340 Main Street, Lovelock, Nevada 89419

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/26/67		110
		220

SEP 26 1967

Mr. James H. Crofoot
Secretary-Treasurer
Crofoot Mining Company
P. O. Box 625-B
Ukiah, California 95482

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

Dear Mr. Crofoot:

Thank you for your check in the amount of $748.25 submitted through our Field Officer, Region II, Menlo Park, California, for royalty on production from the subject property through July 5, 1967.

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region II
130

GLAult/a 9-25-67

23263

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Memorandum

September 1, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 5 1967

INITIALS	CODE
	120 M
	110
	120 M
	220

To: Chief, Office of Minerals Exploration
Washington, D. C.

From: Field Officer
Region II

Subject: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

As requested by your memo of July 17, 1967, I checked with the U. S. Bureau of Mines, and also with U. S. Geological Survey personnel, concerning production from the subject property during the period July 22, 1965, through July 5, 1967. The Bureau of Mines had no record of production, but Robert E. Wallace of the Survey stated that the property was active this spring. An inquiry of Mr. Llewellyn A. Young, of Lovelock, Nevada, on July 20, resulted in a reply on August 21 that there was no production from May 17, 1965, until April 11, 1967, and that production since that date had been made by the present leaseholder and operator, Crofoot Mining Company, P.O. Box 625-B, Ukiah, Calif. 95482. I then wrote to the Crofoot Mining Company on August 23 and requested settlement of the royalty account.

Mr. James H. Crofoot, secretary-treasurer of the Crofoot Mining Company, came to the Field Office today and furnished copies of two settlement sheets (dated April 11, 1967, and June 15, 1967) indicating the sale of 32 flasks of quicksilver to Quicksilver Products, Inc., of San Francisco, Calif., for a total sales price of $14,965.00. He gave me a check for 5 percent of this amount, or $748.25, and stated that this was the only production from the property through July 5, 1967. Operations since that date have been confined to exploration. Mr. Crofoot took a copy of the OME booklet and application forms with the stated intention of submitting an application for exploration assistance.

H. K. Stager

H. K. Stager

Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

August 23, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
AUG 25 1967
INITIAL CODE
120 RM
1 10
620

Crofoot Mining Company
P.O. Box 625-B
Ukiah, California 95482

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Gentlemen:

Mr. Llewellyn A. Young of Lovelock, Nevada has informed us by letter, dated August 21, 1967, that you are the present leaseholder and operator of the Redbird Quicksilver Mine, Pershing County, Nevada. He also informed us that pursuant to the terms of the lease the lessor was to make royalty payments on production to the Office of Minerals Exploration. Inasmuch as the royalty repayment period on the subject contract expired on July 5, 1967, will you please give us a report on production from May 1965 through July 5, 1967, and pay the 5 percent royalty due the Government so that we may close our books and records on this contract.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

cc:
Chief, OME, WDC
Dir RF
ACG RF
MP RF
Docket
HKStager:mlb
8-23-67

CLARENCE L. YOUNG

LLEWELLYN A. YOUNG

YOUNG AND YOUNG
ATTORNEYS AT LAW
LOVELOCK, NEVADA

August 21, 1967

United States Department of the Interior
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. IDM-E838

Gentlemen:

This will acknowledge receipt of your letter dated July 20, 1967, concerning payment of royalties on Redbird production. We leased the mine to Mr. Gertz and Mr. Walsh, and they in turn assigned the lease to Copper Ridge Mines who in turn assigned their interest to the Crofoot Mining Company, P. O. Box 625-B, Ukiah, California.

Pursuant to the terms of the lease, the Lessor was to make the OME payments. I suggest that you contact Crofoot Mining Company in order to determine its production from May 17, 1965, until July 5, 1967. It is my impression that there was no production from May 17, 1965, until April 11, 1967. If you have any information to the contrary, I would appreciate receiving it, and I will try and run it down in my files. Otherwise, will you please contact Crofoot Mining Company concerning payment on the production of ore until July 5, 1967.

Sincerely yours,

Llewellyn A. Young Jr.

Llewellyn A. Young

LAY:js

RECEIVED
AUG 23 1967
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

July 20, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 24 1967

INITIALS	CODE
	220

Mr. Llewellyn A. Young
340 Main Street
Lovelock, Nevada 89419

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Young:

We have not received a royalty payment on production from the subject property since your accounting and payment of November 23, 1965, for the period of January 21, 1964, through May 17, 1965. Records of the U.S. Bureau of Mines and reports by personnel of the U.S. Geological Survey indicate that there has been production from the property during the period from May 1965 through July 5, 1967, for which the OME is entitled to royalty payments. Inasmuch as the royalty repayment period on this contract expired on July 5, 1967, will you please give us a report on production through that date and pay the royalties due so that we may close our books and records on this contract.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

cc: Chief, OME, WDC (2)
D RF
ACG RF
MP RF
Docket

HKStager:mlb
7-20-67

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/17	[illegible]	110
7/17/67	Kirkemo	120
		220

JUL 17 1967

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

On July 13, 1965, Mr. Paul V. Fillo inspected the property under the subject contract and on July 22, 1965, reported on activity at the property. We have had no reports on the property since then other than an OME Form 63 from one of the owners of the property.

The royalty repayment period on this contract expired July 5, 1967. Before closing our books and records on this contract will you please check with the U. S. Bureau of Mines on production from the Redbird Quicksilver Mine for the period July 22, 1965 to July 5, 1967, and furnish us with a report thereon.

Harold Kirkemo
for Frank E. Johnson

cc: Director's reading file
Division file
Economic Geology file
OME file
OME reading file
130
120

FEJohnson/bih 7/14/67

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Geological Survey
345 Middlefield Road
Menlo Park, California 94025

March 29, 1966

Mr. E. W. Johnson
c/o Two Stiffs Motel
Lovelock, Nevada

HK 120K
220

Re: Redbird Mercury Property
(DMEA-3647)
Pershing County, Nevada

Dear Mr. Johnson:

We received your letter of March 7, 1966, concerning information about the Redbird Property, but to date have not received the letter from Mr. L. Young. There is very little information in our files that could be released to you, or Mr. Young, but until we receive the request from him we cannot give you what little there is.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

cc: Chief, OME, WDC
D RF
ACG RF
MP RF
DMEA 3647
HKStager:mlb

L. G. WHITE & ASSOCIATES LTD.
CONSULTING MINING ENGINEERS

TELEPHONE 684-5432

~~411 DAVIE BUILDING~~
~~1030 DAVIE STREET~~
~~VANCOUVER 5, B.C.~~
c/o Two Stiffs Motel
Lovelock, Nevada.
Mar. 7/66.

Mr. Harold Stager
Engineer in Charge OME
U. S. Geological Survey
Dept. of the Interior
Menlo Park, California.

Re. Redbird Mercury Property
Lovelock, Nevada.

Dear Mr. Stager

As a geologist I am currently engaged in making an assessment of the Redbird Property for Mr. Len White of Vancouver, B.C.

As we passed through Menlo Park on our way to Nevada, we stopped and had a very informative and helpful visit with Mr. Bailey.

Upon our arrival in Lovelock I requested Mr. L. Young the prime owner of the Red Bird Property claims to write to your office requesting that available information in the DMEA files - re the Redbird Property be released to us here at Lovelock.

Any maps, sections, sample sections etc. concerning the property that you feel would help us in this work would be greatly appreciated.

RECEIVED
MAR 9 1966
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

Yours very truly

E. W. Johnson.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

December 1, 1965

ORIGINAL COPY
C. A. R.
RECEIVED
DEC 8 1965
120
120

Mr. Llewellyn A. Young
340 Main Street
Lovelock, Nevada

Re: IMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Young:

This is to acknowledge receipt of your letter, settlement sheets, and royalty payment (check No. 6639) to the Government. Enclosed are the settlement sheets you requested I return.

Sincerely yours,

Paul V. Fillo
Field Officer
OME, Region II

Enclosures

cc;
Chief, OME, Wash., D.C.

AIR MAIL

Coe 210 P
~~120~~
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November 30, 1965

Memorandum

To: Administrative Officer, Office of Economic Geology, Geological Survey, U. S. Department of the Interior, Washington, D. C.

From: Field Officer, OME, Region II

Subject: Royalty Payment
DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

Enclosed for deposit to the subject DMEA account under the Symbol 14X4401, as a royalty receipt is check No. 6639, dated November 23, 1965, for the amount of $282.13, drawn by Young & Young, Lovelock, Nevada on the First National Bank of Nevada, Lovelock, Nevada.

The check covers the royalty payable to the Government as shown in the enclosed letter with settlement sheets attached.

Paul V. Fillo

Enclosure
Check No. 6639

cc:
Chief, OME, Wash. D. C.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/16	[illegible]	130
8/17	Johnson	120
		220

AUG 17 1965

Memorandum

To: Acting Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-2838

Reference is made to your memorandum of July 22, 1965, relating to your telephone conversation with Mr. Young. If the information regarding production and the royalty thereto have not been received by the time you have returned from your vacation, please write Mr. Young impressing him that the royalty is long past due. Possibly you may be able to learn something directly from Quicksilver Producers, Inc., in San Francisco.

(signed) FRANK E. JOHNSON

Frank E. Johnson

GCSelfridge/gla (8-16-65)
cc to: Director's Reading File
Division File
Economic Geology File
OME File ✓
OME Reading File
Mr. Selfridge (2)
120M

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

July 22, 1965

JUL 26 1965
INITIALS | CODE
110
120
120
220

Memorandum

To : Chief, Office of Minerals Exploration, Washington, D. C.

From : Acting Field Officer, OME, Region II

Subject: DMEA 3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

Annual Inspection

The subject property was inspected July 13, 1965. I found the property to be idle with no one around. An inspection of the dump, ore bin, and a makeshift rotary retort equipment showed that no activity of any sort could possibly have been made on the property during the past 6 months or longer.

I was unable to see Mr. Young at the time of my visit in Lovelock, but yesterday I asked Mr. Young on the telephone why the property was left idle at a time when the price of Mercury is so high. He said that the lessee is having problems with the sub-lessees. I advised him of the royalty due with reference to your letter of January 14, 1965. He will obtain the necessary sale evidence showing the name of the purchaser, and also submit the royalty payment. He mentioned that the gross sale was small and was made to the Quicksilver Producers, Inc., San Francisco, Calif. Mr. Young mentioned that in all the lease-agreement contracts to the lessees, it is stated that the Government will get 5 percent royalty on all sales of mercury from the property to July 5, 1967 or until the sum of approximately $23,419.50 was paid whichever occurred first.

This is a sad situation from the mining standpoint because the owners as well as the lessee are not mining people and the sub-lessees are probably promoters with some knowledge of mining but not enough to get any production.

A follow-up concerning the royalty will be made in September, if Mr. Young hasn't submitted it by then.

Paul V. Fillo

Paul V. Fillo

cc:
Chief, OME, Wash., D. C.

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee ☐ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE *(must always be filled in)*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED	SHOW WHERE DELIVERED *(only if requested)*
1-19-65	DMEA 3647

C55—16—71548-5—F GPO

DMEA 3647

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	Selfridge	120
1/13	Johnson	110
4		100
		220

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Mr. Llewellyn Young
P. O. Box 179
340 Main Street
Lovelock, Nevada

JAN 1 4 1965

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-8838

Dear Mr. Young:

Thank you for returning our MME Form 63 dated July 27, 1964.

Relative to the undated Consent to Lien signed by you and others, you were informed by letter of August 20, 1958, that all production from the subject property was subject to Government royalties from July 5, 1955, to July 5, 1967, or until the sum of $23,419.50 was paid whichever occurred first. As you have indicated on the MME Form 63 that there has been production, will you please send the details to the Acting Field Officer, Office of Minerals Exploration, Region II, 450 Golden Gate Avenue, P.O. Box 36012, San Francisco, California, 94102. Royalty on mercury would be 5 percent of the gross. Royalty payments should be made in favor of the Office of Minerals Exploration. Each payment should be accompanied by two copies of settlement sheets or other suitable sales evidence showing the name of the purchaser, the quantity and grade of the production sold, the price per unit, and the gross proceeds and allowable deductions therefrom. Actually, the purchaser should be notified of the Government's royalty on production and directed to pay the royalty directly to the Government.

Sincerely yours,

George Fumich, Jr.

Acting Director

GCSelfridge/mm (1/14/65)
cc: Director's Reading File
Region II w/cy of incoming 63
Docket
GCSelfridge
Code 120M

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	JCS	130
11/17	JTimson	110
4		100
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NOV 17 1964

Memorandum

To: Acting Field Officer, Region II

From: Chief, Division of Exploration Operations

Subject: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

We sent Mr. Llewellyn Young an MME Form 63 on July 27, 1964, which he did not return. On September 21 we sent another registered mail which was signed for Mr. Young by Jolene Scilacci at Lovelock, P. O. Box 179. This one has not been returned either. The next time you are in the vicinity, will you please contact Mr. Young at 340 Main Street and inquire about production from the property. If necessary, the property might be visited as it is not too far from Lovelock as indicated in the on-site report.

George C. Selfridge (gla)

GCSelfridge/mm (11/17/64)
cc: Director's Reading File
Review Committee
Docket
Mr. Selfridge
Code 120M

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

555 Battery Street
San Francisco 11, California

RECEIVED NOV 9 1962

DATE		
		500
	Received	500
November	5, 1962	
11/13	Halty S.F.11	500
		220

Memorandum

To: Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington, D. C.

From: Acting Field Officer, OME, Region II

Subject: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-5638

Enclosed is the original of a Report of Royalty Review covering the subject contract.

This office concurs in the facts as stated in the Report of Royalty Review.

Paul V. Fillo

Enclosure

cc:
Chief, Division of Field Operations, Washington, D. C.
Contract Administration and Audit Division, Washington, D. C.

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
		220

November 1, 1962

Memorandum

To: Acting Field Officer, Region II

From: E. D. Talbert, Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: MMRA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-E838

The original and one copy of a Report of Royalty Review covering the subject contract are enclosed. If you concur in the facts stated therein, please make the following distribution:

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington 25, D. C.; and

(b) One copy for your files.

This Report of Royalty Review is made for record purposes only; therefore, no copy for the Operator is provided.

As evidence of your concurrence, a copy of your memorandum transmitting the original report to the Fiscal Section should be furnished this Division. If for any reason you do not concur, both copies of the report should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 11-1-62

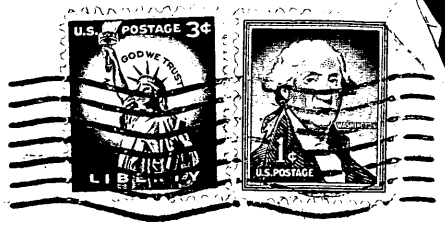
cc:
Docket
Director's Reading File
CA & A Division
Fiscal Section

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

WASHINGTON, D.C. 26
AUG 20
2:30 PM
1958



180

Mrs. Alta Bingham
2857 Wall Avenue
Ogden, Utah

RETURN TO WRITER

OGDEN
AUG 25
1958
3 PM
UTAH

480

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	Selfridge	120
1/13	Johnson	110
1/7		100
		220

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Mr. Llewellyn Young
P. O. Box 179
340 Main Street
Lovelock, Nevada

JAN 1 4 1965

Re: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-K838

Dear Mr. Young:

Thank you for returning our MME Form 63 dated July 27, 1964.

Relative to the undated Consent to Lien signed by you and others, you were informed by letter of August 20, 1958, that all production from the subject property was subject to Government royalties from July 5, 1955, to July 5, 1967, or until the sum of $23,419.50 was paid whichever occurred first. As you have indicated on the MME Form 63 that there has been production, will you please send the details to the Acting Field Officer, Office of Minerals Exploration, Region II, 450 Golden Gate Avenue, P.O. Box 36012, San Francisco, California, 94102. Royalty on mercury would be 5 percent of the gross. Royalty payments should be made in favor of the Office of Minerals Exploration. Each payment should be accompanied by two copies of settlement sheets or other suitable sales evidence showing the name of the purchaser, the quantity and grade of the production sold, the price per unit, and the gross proceeds and allowable deductions therefrom. Actually, the purchaser should be notified of the Government's royalty on production and directed to pay the royalty directly to the Government.

Sincerely yours,

George Fumich, Jr.

Acting Director

GCSelfridge/mm (1/14/65)
cc: Director's Reading File
Region II w/cy of incoming 63
Docket
GCSelfridge
Code 120M

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	JCS	130
11/17	J Simon	110
4	[illegible]	100
		220

NOV 17 1964

Memorandum

To: Acting Field Officer, Region II

From: Chief, Division of Exploration Operations

Subject: DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-11838

We sent Mr. Llewellyn Young an MME Form 63 on July 27, 1964, which he did not return. On September 21 we sent another registered mail which was signed for Mr. Young by Jolene Scilacci at Lovelock, P. O. Box 179. This one has not been returned either. The next time you are in the vicinity, will you please contact Mr. Young at 340 Main Street and inquire about production from the property. If necessary, the property might be visited as it is not too far from Lovelock as indicated in the on-site report.

George C. Selfridge (gla)

GCSelfridge/mm (11/17/64)
cc: Director's Reading File
Review Committee
Docket
Mr. Selfridge
Code 120M

23263

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

555 Battery Street
San Francisco 11, California

RECEIVED NOV 9 1962

DATE		
		500
	Received	500
November	5, 1962	
11/13	Halt S.T.H.	500
		220

Memorandum

To: Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington, D. C.

From: Acting Field Officer, OME, Region II

Subject: IMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-5838

Enclosed is the original of a Report of Royalty Review covering the subject contract.

This office concurs in the facts as stated in the Report of Royalty Review.

Paul V. Fillo

Enclosure

cc:
Chief, Division of Field Operations, Washington, D. C.
Contract Administration and Audit Division, Washington, D. C.

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
		220

November 1, 1962

Memorandum

To: Acting Field Officer, Region II

From: E. D. Talbert, Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: MMRA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract Idm-K838

The original and one copy of a Report of Royalty Review covering the subject contract are enclosed. If you concur in the facts stated therein, please make the following distribution:

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington 25, D. C.; and

(b) One copy for your files.

This Report of Royalty Review is made for record purposes only; therefore, no copy for the Operator is provided.

As evidence of your concurrence, a copy of your memorandum transmitting the original report to the Fiscal Section should be furnished this Division. If for any reason you do not concur, both copies of the report should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 11-1-62

cc:
Docket
Director's Reading File
CA & A Division
Fiscal Section

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 15 1959

DATE	INITIALS	CODE
6/15	G	220
6/16	[illegible]	800
6/17	WSM	400

June 10, 1959

Mr. C. A. Coppin
50 East 4500 South
Salt Lake City, Utah

Re: Docket No. DMEA-3647 (Mercury)
Contract No. Idm-E 838
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

Dear Mr. Coppin:

Thank you for your letter received May 21 and the enclosed royalty check. This brings royalty payments for ore sold in your name up to date.

Apparently, there is still royalty due, however, on eight flasks sold earlier in the name of the Redbird Leasing Company to Quicksilver Products, Inc., 407 Sansome Street, San Francisco 11, California.

	Date	Flasks	Amount
February	12, 1958	1	$213.14
March	10, 1958	1	200.21
March	13, 1958	1	205.28
March	19, 1958	1	226.13
March	- 1958	1	223.94
April	1, 1958	1	228.32
No date		1	231.32
May	14, 1958	1	213.96
		8	$1,740.30
Apparent royalty at 5 percent			$87.12

Received 6-25-59 [illegible]

Will you please send us promptly three copies each of the settlement sheets for these shipments, and if royalty is in fact due the Government, your check for the amount due.

Very truly yours,

Roscoe M. Smith, Acting Executive Officer
OME Field Team, Region II

Copy to: C.A.Coppin, 470 - 14th St., Lovelock, Nevada

RMS:ft
cc: Opr. Com., OME, Wash., D.C.
WFDietrich
Finance Office
GeoMayor
Menlo Park Office
File
Chron

REFER TO	NOTED	DATE
Blackman	BHS	7/6/59
R. Smith		
File		
ANSWER REQUIRED		

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
420 Custom House, 555 Battery Street
San Francisco 11, California

June 3, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 15 1959

DATE	INITIALS	CODE

Memorandum

To: Mr. Roscoe Smith, Acting Executive Officer,
Office of Minerals Exploration, Reno, Nevada

From: George Mavor, OME Auditor *George Mavor*

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Reference is made to letter dated May 11, 1959 from Glenn G. Gentry to you, and your letter dated May 15, 1959 to Mr. C. A. Coppin in connection with royalties due the Government under the terms of subject contract. The royalty of $11.27 requested from Mr. Coppin in your letter of May 15, 1959 was paid and received in Finance Office May 22, 1959, however there appears to be additional royalties due based on the following information:

On May 18, 1959 I called at the office of the Quicksilver Products, Inc., 407 Sansome Street, San Francisco 11, California, and found that this Company had purchased 8 flasks of mercury from the Redbird Leasing Company, Lovelock, Nevada.

Date	Flasks	Amount
February 12, 1958	1	$213.14
March 10, 1958	1	200.21
March 13, 1958	1	205.28
March 19, 1958	1	226.13
March - 1958	1	223.94
April 1, 1958	1	228.32
No date	1	231.32
May 14, 1958	1	213.96
Totals	8	$1,742.30

The above information was obtained from a purchase register maintained in the office, however the details were lacking, and I asked for copies of the settlement statements, which they promised, but stated it would require a few days as they were in storage. Yesterday June 2, 1959, I phoned and was advised that they had not as yet had the time to obtain the settlement statements for us, so I told them we could possibly get the complete information from the Redbird Leasing Company in Lovelock, Nevada

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

The last royalty paid by C. A. Coppin for $11.27 and received in Finance Office May 22, 1959, represented 5 percent of $225.36 covering the purchase of 1 flask of mercury on June 8, 1958 by the Quicksilver Products, Inc., and it should be noted that the above 8 flasks of Mercury were purchased prior to June 8, 1958, therefore it appears C. A. Coppin owes the Government a royalty at 5% in amount of $87.12, based on the purchase price of $1,742.30.

Royalties have been paid the Government on Mercury shipments by C. A. Coppin and Redbird Leasing Company, and on each settlement statement of the Quicksilver Products, Inc. the distribution of proceeds from purchase shown that Llewelyn Young received 10 percent of the gross settlement and 90 percent of the gross settlement to either C. A. Coppin or Redbird Leasing Company from which was deducted freight of $2.03 per flask on the 90 percent portion of settlement.

In view of the detail set forth above, I believe immediate steps should be taken to contact Mr. Llewelyn Young and Mr. C. A. Coppin in order to get a full accounting of the 8 flasks of mercury sold to the Quicksilver Products, Inc., and settled by them for $1,742.30 on which an apparent royalty of 5 percent or $87.12 is due the Government. When making the demand for the royalty, a request should be made to forward 3 copies of each settlement statement.

Copy to: E. D. Talbert

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
6/16	G	220
		400

JUN 16 1959

Memorandum

To: Mr. George Mavor, OME Auditor

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Contract No. Idm-E838

Your Report of Royalty Review on the subject contract is acceptable for normal distribution after revising the words "including Amendment Nos. 1 and 2, with" on the fourth line of the first paragraph to read "including Amendments Nos. 1 through 3, inclusive, with".

This revision has been made in the Washington copies.

EDTalbert/ama
June 16, 1959

Copy to: Docket
Director's Reading File
Code 800

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
		220
6/9	W	225
6/11	WSN 6/11	400

JUN 9 1959

Memorandum

To: Mr. George Mavor, OME Auditor

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Contract No. Idm-F838

Receipt is acknowledged of a copy of your June 3 memorandum to the Acting Executive Officer, OME Field Team, Region II, stating that the subject Operator had paid delinquent royalty of $11.27, but that an additional $87.12 in royalty is due the Government on 1958 sales of production.

It appears that you have now given this project a complete royalty review. Therefore, it is suggested that you revise and resubmit the Report of Royalty Review which was returned to you unapproved with my memorandum of April 28, 1959.

EDTalbert/ama
June 9, 1959

Copy to: Docket
Director's Reading File
CA & A Division

43683

P. S. Possibly ~~by~~ checking with the buyer, Quicksilver Products, Inc., 407 Sansome Street, San Francisco, California will help in this matter.

FEJohnson

Please see the attached memo from FT, Region II, dated 5/21/59, which has just reached us

WSM
5/26/59

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
5/25	Holt	400
5/25	Martin	400
5/25	Talbert	800
5/26	[illegible]	130
"	Johnson	110
6/2	[illegible]	220
		400

JUN 1 1959

400

Memorandum

To: Alternate Acting Executive Officer, OME Field Team, Region II

From: Chairman, Operating Committee, OME

Subject: Docket No. DMEA-3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Mr. Roscoe M. Smith, by letter of May 15, 1959, requested the Operator of the above-captioned contract to submit payment of $11.27, royalty due on the production of one flask of mercury, Lot 18910, sold June 5, 1957.

However, Mr. Smith, in his letter to the Operator, does not mention the royalty due on 9 flasks of mercury, reported in the Final Report of the Field Team, dated July 21, 1958, as produced from the property since the end of contract work. This reported production was also noted in Mr. Gentry's memorandum to Mr. Smith of May 11, 1959, with the statement that he had asked Messrs. Young and Coppin about it.

It will be appreciated if you will advise us what further steps have been taken to secure the royalty due the Government on this production.

/s/ George C. Selfridge

(24B)

Approved:

(sgd.) G. W. Josephson (24B)
Member, Bureau of Mines

Thor H. Kiilsgaard (24B)
Member, Geological Survey

SPHolt:gad 5/25/59
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard, USGS
Mr. J. W. Pennington, USBM

P. S. Possibly checking with the buyer, Quicksilver Products, Inc., 407 Sansome Street, San Francisco, California will help in this matter.

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1605 Evans Avenue
Reno, Nevada

Jan. 30, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 4 1959

DATE	INITIALS	CODE
2-4	C	220
2/4	WSM	400

Memorandum

To: Operating Committee, OME, Interior Building
Washington 25, D. C.

From: Executive Officer, OME Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
Contract No. Idm-E 838
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

Enclosed are two copies of a memorandum by Glenn G. Gentry which explains the current status of subject docket. In the meantime, we shall endeavor to contact Mr. Coppin.

S. Ricker

Attachments

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 4 1959

DATE	INITIALS	CODE

January 30, 1959

Memorandum

To: Mr. S. Rickar, Executive Officer, OME Field Team, Region II

From: Glenn G. Gentry

Subject: Docket No. DMEA-3647 (Mercury)
Contract Idm-E 838
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

For the purpose of obtaining additional information relative to the present status of the mine operations, production, and royalties, the office of Mr. Llewellyn Young, Attorney at Law, 340 Main Street, Lovelock, Nevada, was visited on January 29, 1959.

Mr. Young owns one-half interest in the Redbird and Redbird No.1 mining claims, which are pertinent to the referenced contract, and also represents the other owners.

The DMEA contract work was completed on February 20, 1958 and certification of discovery was issued on August 20, 1958.

The DMEA final report dated July 21, 1958 states in part: "Since the project was finished, nine flasks from about 30 tons of ore have been recovered from the ore body above the Young-Macabee stope. Royalty from this production had not been received as of July 15, 1958." This matter was discussed with Mr. Young who advised that he had no knowledge of such production and no royalty payments had been made to the owners.

Production of quicksilver during 1957:

Date	Lot No.	Net weight	Amount
March 7	61933	153 pounds	$488.07
March 14	61952	72 "	229.68
" 28	61995	151-3/4 "	484.08
		376-3/4 "	$1,201.83

5 % Royalty = $60.10 paid to DMEA.
10% Royalty paid to the owners.

Production of quicksilver during 1958:

Date	Lot No.	Net weight	Amount
June 5	18910	78¼ pounds	$225.36

5% royalty due DMEA = $11.27
10% royalty has been paid to the owners.

The above shipments of quicksilver were consigned to Quicksilver Products, Inc., 407 Sansome Street, San Francisco, California by the Redbird Leasing Company, Lovelock, Nevada.

The name of the claims from which the June 5, 1958 production was obtained were unknown to Mr. Young and Mr. Coppin was not available for consultation.

History

On January 7, 1955 the owners leased the mining claims to Mr. C. A. Coppin, now addressed at 50 E. 4500 South, C/o Trailer City, Salt Lake City, Utah, telephone: AMherst 63393.

On September 8, 1958, Mr. Coppin stated in a letter to this office: "We have turned our lease on the Redbird Mine as of July 5, 1958 to the Minerals Exploration Company C/o Mr. Rush Meadows, Lovelock, Nevada. We no longer have any connection with this mine." Mr. Meadows maintains his office at 1065 Cornell Street, Lovelock, Nevada but his whereabouts and the date of his return could not be learned.

General information

Mr. Young advised that no production had been made by the Minerals Exploration Company since they acquired the lease. The mine was closed down early in November, 1958 and has been inactive since that date.

Mr. Meadows is reported to be endeavoring to secure additional finances or to sell the lease but, so far as known, has not been successful.

During 1957 Mr. Coppin filed on the mineral rights on approximately 160 acres of land adjoining the south end lines of the Redbird group of claims. These rights have now been challenged by Mr. S. L. Snyder, E. 308 - 29th Street, Spokane, Washington, who claims ownership of the land and has instituted suit against the owners of the Redbird Claims.

Conclusions

It appears probable that the reported production of nine flasks, after completion of the DMEA contract, was an error inasmuch as the owners had no information on the subject and had received no royalty payments. However, the production on June 5, 1958 may have been derived from pertinent contract claims.

I suggest a letter to Mr. Coppin requesting him to clarify all of the above matters.

Glenn G. Gentry,
Mining Engineer

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/29	Fisher	800
1-29	Chambers	800
1/29	Holt	400
1/29	Martin	400
1/30	GCS	130
"	Johnson	100
		~~[illegible]~~
		400
2/2	C	220

JAN 30 1959

Mr. Spangler Ricker
Executive Officer
OME Field Team, Region IX
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-1838

Dear Mr. Ricker:

The semi-annual report of certified project relating to the subject contract for the period ended December 31, 1958, states that $101.25 royalty is due from the Operator in connection with the production of nine flasks of mercury.

Special Notices Nos. 398 and 883 of the Minutes of the Operating Committee dated July 30, 1954, and October 18, 1957, respectively, place upon the Executive Officers of the Field Teams the initial responsibility for the collection of royalty due the Government.

Will you please advise status of your efforts to collect the royalty due on this project.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JLB)

APPROVED:

C. T. BAROCH (JLB)
Member, Bureau of Mines

N. E. Nelson (JLB)
Member, Geological Survey

cc: Docket
Director's Reading File
Operating Committee
THKiilsgaard
JWPennington
Mr. Chambers
Mr. George Mavor

CEFisher/GMcC
January 29, 1959

8623

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 7/1/58-12/31/58 Date of Examination 12/31/58

Operator C. A. Coppin (leased to: Meadow Exploration Company)

Mine Name Redbird Quicksilver Mine

County and State Pershing County, Nevada

Docket Number and Commodity DMEA-3647 (Mercury)

Contract Number Idm-E 838

Date of Contract 7/5/55

Date of Certification 8/20/55

Expiration Date of Royalty Payments 7/5/67

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 27 1959

DATE	INITIALS	CODE
1-27	C	220
1-	[illegible]	110
1/29	EE	800
1/29	WSM	400

Total Amount of Contract $31,310.00

Total Expenditures under Contract $31,226.00

Amount of Government Participation at 75% $23,419.50

Royalty Payments this Period None

Previous Royalty Payments $202.93

Total Royalty Payments to Date $202.93

Percent Government Participation Repaid 0.9%

Royalty Due on Production to Date $101.25

Royalty Remarks: The operator produced nine flasks of mercury during the previous reporting period from which royalty payments have not yet been received.

C. A. Coppin (leased to: Meadow Exploration Co.) DMEA-3647 Idm-E838

				Tons	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report)	Mines [ ]	Survey [ ]	Joint [X]	600	10 lbs. Hg./T
Revised Estimate of DMEA Reserves (Field Team)	Mines [ ]	Survey [ ]	Joint [X]	1,070	8 lbs. Hg./T
Increase of Reserves by work performed subsequent to DMEA project work					
Production DMEA ore	(This period)			0	
	(Previous)			470	4.21 lbs. Hg./T
	(To date)			470	4.21 lbs. Hg./T
Operator's ore found subsequent to DMEA work	(This period)				
	(Previous)				
	(To date)				

Percent Revised Reserves mined 44%

Investment Data

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

Intermittent operations by Meadow Exploration Company indicate production will be resumed.

Signed Glenn G. Gentry (Engineer)
Glenn G. Gentry

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

Sept. 12, 1958

DATE	INITIALS	CODE
9/15	C	220
9/15	WSM	400

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Enclosed are two copies of a letter from the operator advising us that his lease on subject property has been assigned to the Minerals Exploration Company, C/o Mr. Rush Meadows, Lovelock, Nevada.

S. Ricker

Attachments

COPY

Sept. 8, 1958
50 E. 4500 South
C/o Trailer City
Salt Lake City, Utah

D.M.E.A.
Reno, Nevada

Re: Docket No. DMEA-3647
Redbird Quicksilver Mine
Pershing County, Nev.
Contract No. Idm-E 838

Dear Mr. Ricker:

We wish to notify you that we have turned our lease on the Redbird as of July 5th, 1958 to the Minerals Exploration Company, C/o Mr. Rush Meadows, Lovelock, Nev. We no longer have any connection with this mine.

Will call on you in a few days.

Sincerely yours,

(signed) C. A. Coppin

Form 7
-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Holt	400
	Martin	400
	Long	140
	Shenigo	140
9/9	Selberg	120
"	Johnson	110
"	Montanez	100
9/9	C	220
		400

SEP 9 1958

Young & Young
Attorneys at Law
Lovelock, Nevada

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Gentlemen:

In connection with the subject contract, on June 30, 1955, we received an undated "Consent to Lien", Standard Form MF-203 executed by Alta C. Bingham and Douglas C. George, among others.

Letters to Mrs. Bingham and Mr. George, mailed to the addresses given in a copy of a lease from Mr. Bingham, et al., to C. A. Coppin which was prepared on your stationery, have been returned by the Post Office Department stamped "No such street number".

Accordingly, it will be appreciated if you will furnish us with the correct addresses of Mrs. Alta Bingham and Mr. Douglas C. George. We wish to notify these parties that a certification of discovery or development has been issued by the Government covering the captioned exploration project. For your convenience a stamped, self-addressed envelope is enclosed.

Sincerely yours,

C. O. Mittendorf

Administrator

SPHolt:foc 8/28/58
Rewritten RWLong/eal 8/29 hm 9/4
cc: Code 400
Administrator's reading file
FT. Reg. II
J. W. Pennington, USBM
T. H. Kiilsgaard, USGS
Mr. Long

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AUG 20 1958

Mr. Douglas C. George
285 Victory Road
Washington Terrace
Ogden, Utah

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. George:

Enclosed is a copy of certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien executed by you, which was submitted to us June 30, 1955. The Government's prior lien on the land and on any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

O P Mittendorf

Administrator

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Re: Docket No. DMEA 3647 - Mercury
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Coppin:

Enclosed is a certification of discovery or development which covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, and of the certification all minerals mined or produced from July 5, 1955, to July 5, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum of $23,419.50 is paid.

Royalty should continue to be paid, as it has been in the past, to the Executive Officer, DMEA Field Team, Region II, 605 Evans Avenue, Reno, Nevada. Checks covering royalty should be made payable to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward check to the Executive Officer. Royalty payments to the Government should be accompanied by suitable evidence, such as settlement sheets, showing quantity and grade of the products sold, the name of the purchaser, and the charge certified to be correct by the purchaser.

You are requested to notify the Executive Officer of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify the Executive Officer at 6-month intervals that no production has been made, when that is the case.

Sincerely yours,

C. O. Mittendorf

Enclosure

Administrator

cc to: Douglas C. George

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Mr. C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Pursuant to the provisions of Exploration Project Contract No. Idm-E838, executed July 5, 1955, (Docket No. DMEA 3647), as amended, hereinafter called the "Contract", between C. A. Coppin and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration.

The nature of said discovery or development is described broadly or indicated as follows:

Drifting, crosscutting, raising and winzing in and from the adit and main haulage levels of the Redbird Quicksilver mine have indicated an appreciable tonnage of mercury ore occurring in the form of pods, veinlets and disseminated crystals of cinnabar in tabular and pipe-like bodies along or adjacent to westerly-and northwesterly-striking faults in shale-capped limestone and limestone breccia.

THE UNITED STATES OF AMERICA

Dated AUG 20 1958

By C. M. Mitchell
Administrator, Defense Minerals
Exploration Administration

cc to: Mr. Douglas C. George

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

WASHINGTON
AUG 20
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D.C.26

NO SUCH STREET NUMBER

mrl 43

Mr. Douglas C. George
285 Victory Road
Washington Terrace
Ogden, Utah

400

RETURN TO WRITER

OGDEN
AUG 25
1958
3 PM
UTAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AUG 20 1958

Mrs. Alta Bingham
2857 Wall Avenue
Ogden, Utah

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mrs. Bingham:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien executed by you, which was submitted to us June 30, 1955. The Government's prior lien on the land and on any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. Mitteudorf
Administrator

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. C. A. Coppin
P. O. Box 570
Lovelock, Nevada

Re: Docket No. DMEA 3647 - Mercury
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Coppin:

Enclosed is a certification of discovery or development which covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, and of the certification all minerals mined or produced from July 5, 1955, to July 5, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum of $23,419.50 is paid.

Royalty should continue to be paid, as it has been in the past, to the Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada. Checks covering royalty should be made payable to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward check to the Executive Officer. Royalty payments to the Government should be accompanied by suitable evidence, such as settlement sheets, showing quantity and grade of the products sold, the name of the purchaser, and the charge certified to be correct by the purchaser.

You are requested to notify the Executive Officer of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify the Executive Officer at 6-month intervals that no production has been made, when that is the case.

Sincerely yours,

C. O. Mittendorf

Enclosure

Administrator

cc to: Mrs. Alta Bingham

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Mr. C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Pursuant to the provisions of Exploration Project Contract No. Idm-5838, executed July 5, 1955, (Docket No. DMEA 3647), as amended, hereinafter called the "Contract", between C. A. Coppin and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration.

The nature of said discovery or development is described broadly or indicated as follows:

Drifting, crosscutting, raising and winzing in and from the adit and main haulage levels of the Redbird Quicksilver mine have indicated an appreciable tonnage of mercury ore occurring in the form of pods, veinlets and disseminated crystals of cinnabar in tabular and pipe-like bodies along or adjacent to westerly- and northwesterly-striking faults in shale-capped limestone and limestone breccia.

THE UNITED STATES OF AMERICA

Dated AUG 20 1958

By C. Mitterdorf
Administrator, Defense Minerals
Exploration Administration

cc to: Mrs. Alta Bingham

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8-14	Holt	400
8-14	Chapman	400
8-14	Chambers	800
8/19	Selfridge	130
		~~800~~
8/19	Jameson	110
	Sutherland	100
8/20	J. J. g.	220
8/19	Yopes	130
8/19	Gibson	130
		400

AUG 20 1958

Mr. C. A. Fredell, Director
Technical Research and Development Division
Defense Materials Service
General Services Administration
7th and D Streets, S. W.
Washington 25, D. C.

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Fredell:

Enclosed is a copy of a certification of discovery or development issued under the subject contract.

Contract No. Idm-E838 for the exploration of the Redbird Quicksilver Mine group of claims was executed July 5, 1955. Expenditures up to $31,310.00 were authorized by the contract, of which the Government's share at 75% was $23,482.50. Cost of the work completed was $31,226.00, of which the Government's share was $23,419.50.

The object of the exploration program was to test the possible mercury occurrences in limestone and limestone-conglomerate below a capping of shale, along or adjacent to westerly and northwesterly striking faults. The program employed drifting, crosscutting, raising, and winze sinking, on, above, and below the adit and main haulage levels of the Redbird mine to explore the mineralized zone.

The contract as amended provided for 628 feet of drifting and crosscutting, 58 feet of sub-level drifting, 75 feet of winze sinking, 265 feet of raising, and assaying 60 samples for mercury.

Work completed comprised all of the above items, excepting that only 11 samples were assayed for mercury.

Mercury ore discovered by project work included, besides 430 tons mined during and since the date of the contract, from which about 26 flasks of mercury were extracted, the following estimated reserves remaining in place:

8623

Classification	Tons	Grade
Measured	A few tons	30 lbs. Hg/ton
Indicated	100 tons	7-10 " " "
Inferred	500 "	7-10 " " "

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

SPHOLT:fec
8-14-58
cc to: Code 400
110
800
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. F. D. Lamb, USBM
J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

OFFICIAL FILE COPY

Date	Surname	Code
8-14	Holt	400
8-14	Chapman	400
8-14	Chambers	800
8/19	Selfridge	130
8/19	Jones	130
8/19	Nelson	130
"	Johnson	110
20	Littlefield	100
8/20	N. g.	220

AUG 20 1958

Mr. C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Re: Docket No. DMEA 3647 - Mercury
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Coppin:

Enclosed is a certification of discovery or development which covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, and of the certification all minerals mined or produced from July 5, 1955, to July 5, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum of $23,419.50 is paid.

Royalty should continue to be paid, as it has been in the past, to the Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada. Checks covering royalty should be made payable to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward check to the Executive Officer. Royalty payments to the Government should be accompanied by suitable evidence, such as settlement sheets, showing quantity and grade of the products sold, the name of the purchaser, and the charge certified to be correct by the purchaser.

You are requested to notify the Executive Officer of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify the Executive Officer at 6-month intervals that no production has been made, when that is the case.

SPHOLT:foc 8-14-58
cc to: Code 400, 110, 800
Admr. R. File
Oper. Comm.
FT. REG. II
F. D. Lamb, USBM
T. W. Pennington, USBM
T. H. Kiilsgaard, USGS
Myron R. White
Douglas C. George
Kenneth R. George
E. R. Van Winkle

Enclosure

Sincerely yours,

S. O. Littlefield (for)

Administrator

cc to: Llewellyn A. Young
Mrs. Alta Bingham

8623

A Form 7
(2-56)

OFFICIAL FILE COPY

Date	Surname	Code
8-14	Holt	400
8-14	Chapman	400
8-14	Chambers	800
8/19	Selfridge	430
8/19	Kotros	130
8/19	Nelson	130
"	Johnson	110
20	Saturday	10
8/20	S.J.G.	220
		400

AUG 20 1958

Same Letter to:
Messrs. Douglas C. ~~& Kenneth R.~~ and George
Mrs. Alta Bingham
Mr. ~~R.~~ Reed R.Van Winkle
Mr. Llewellyn A. Young

Mr. Myron R. White
545 Bonnie Drive
El Cerrito, California

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. White:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien executed by you, which was submitted to us June 30, 1955. The Government's prior lien on the land and on any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure
SPHOLT/dlm 8-14-58

cc to: CODE 400
Admr. R. File
Oper. Comm.
FT. REG. II

Messrs. F. D. Lamb, USBM
J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

Code 800

8623

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 1 1958

DATE	INITIALS	CODE
8/1/58	H.G.	225
	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

July 31, 1958

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Assistant Chief, Branch of Base Metals

Subject: Review of Field Team final report, Docket No. DMEA 3647 (mercury), C. A. Coppin, Redbird Quicksilver mine, Pershing County, Nevada, Contract No. Idm-E838.

Exploration of the Redbird mine under the contract and amendments consisted of drifting, raising, crosscutting, and winzing at a total cost of $31,226.00.

Two ore bodies were discovered as a result of the DMEA work. One of the bodies produced 17 flasks of mercury from 400 tons of ore.

It is estimated that the remaining reserves discovered by the work include a few tons of 30 pounds of mercury per ton of measured; 100 tons of 7-10 pounds per ton of indicated; and 500 tons of 7-10 pounds per ton of inferred ore.

I concur with the recommendation of the Field Team that a Certificate of Discovery be issued.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

July 23, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 25 1958

DATE		CODE
7/25	C	220
	ej	130
"		110
8/1	ej	130
		220
	WSM	400

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Enclosed are three copies of our final report on subject project by R. M. Smith, Geological Survey, and H. W. Jones, Bureau of Mines.

We agree with the recommendation that a Certificate of Discovery should be issued.

S. Ricker

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
8/1/58
(date)

OFFICIAL FILE COPY
DMEA
RECEIVED: 1-5 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

F.T. Final Report

FINAL REPORT

DMEA-3647, Contract Idm-E838 (Mercury)
C. A. Coppin
Redbird mine
Pershing County, Nevada

by

H. W. Jones
U. S. Bureau of Mines

R. M. Smith
U. S. Geological Survey

July 21, 1958

Reviewed by
DMEA OPERATING COMMITTEE
8/1/58
(date)

INTRODUCTION

The Redbird mine, Pershing County, Nevada, was explored by C. A. Coppin, lessee, Lovelock, Nevada, in cooperation with the Defense Minerals Exploration Administration, docket DMEA-3647, contract Idm-E838 dated July 5, 1955.

An examination of the property to evaluate the completed work was made on March 12, 1958 by Henry W. Jones, U.S. Bureau of Mines, and R. H. Campbell, U.S. Geological Survey, accompanied by Mr. Coppin.

SUMMARY

The purpose of the project was to explore for quicksilver ore bodies along continuations of the Redbird fault system above, below, and on the haulage level of the mine by raising, winzing, and drifting.

Work under the contract was begun on July 19, 1955 and was completed on February 20, 1958. The total expenditures under the original contract were $17,096.00, but additional work under Amendment No. 2 increased the total allowable costs to $31,310.00, of which $31,226.00 was expended. The Government's share of project costs at 75 percent was $23,419.50. As a result of the work one ore body was discovered in the DMEA winze below the haulage level, and

another northwest of the old stopes above the haulage level. Ore was mined from the winze ore body and 17 flasks of mercury was recovered from 400 tons of ore. Reserves remaining in the mine and discovered as a result of the project are:

Measured	a few tons	30 lbs. Hg/ton
Indicated	100 tons	7-10 lbs. Hg/ton
Inferred	500 tons	7-10 lbs. Hg/ton

The operator's final report (undated) was transmitted to the DMEA Operating Committee February 26, 1958. ← Back-stamped as received by FT, Feb. 25, 1958

RECOMMENDATIONS

We recommend that the project be certified on the basis of the ore that was discovered. The areas where exploration was conducted were adequately explored, but the ore bodies are small and further development is inseparable from mining. Additional exploration is warranted in the area northwest of the old workings but, unless new indications of larger ore bodies can be found, Government participation is not warranted.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Redbird mine is in secs. 28 and 33, T. 27 N., R. 34 E., M.D.B.&M., at an altitude of about 5,500 feet in the Antelope Springs (Relief) mining district in the south-central part of Pershing County, Nevada. The mine is on the south slope of Buffalo Mountain about a half mile east of the Nevada (Juniper) quicksilver mine and is shown on the Buffalo Mountain quadrangle topographic map.

It is reached by travelling northeasterly from Lovelock, Nevada, along U.S. Highway 40 for 5.8 miles. Turn southeast across the Southern Pacific railroad between loading ramps and follow a well-maintained gravel road over a small pass into the next valley for 10.4 miles, to a windmill. At this point leave the main road and continue straight along an ungraded road up a mountain wash for 3.2 miles. Follow the left fork of the road past the Nevada quicksilver mine sign and continue up a steepening road an additional 1.4 miles to the mine. The roads are accessible to year-round travel except for infrequent intervals during winter months when the last 1-1/2 miles might be impassable for short periods.

Labor for small mining operations is available at Lovelock and from several iron mines in the district. Housing, materials, and equipment are available at Lovelock. Water for mine usage is hauled from the windmill in the valley floor or from Lovelock.

PROPERTY

The mine property consists of two unpatented lode claims, the Redbird and Redbird No. 1, recorded in the Pershing County Courthouse at Lovelock, Nevada, in book 3, page 90, on January 5, 1924. The property is owned by S. A. Young and P. Rowland estates, and a

five-year lease, dated January 7, 1955, signed by L. A. Young is owned by the operator. The 1957 assessment work on the property was recorded in book 7, page 430, under the combined names of Llewellyn A. Young, Myron White, Ried Van Winkle, Kenneth R. George, and Alta and D. C. George, all heirs to the Young and Rowland estates. L. A. Young owns one-half of the property rights, the other half is equally divided among the above-listed persons.

Surface installations, other than a small retort, were recently destroyed by fire and have not been replaced.

Underground development consists of about 2,100 feet of adits, raises, and winzes, most of which are on the main haulage level and an adit level 70 feet above. An intermediate 30-foot level was driven between the levels. Considerable stoping between the levels and near the surface has been completed. A surface ore body was mined through a short drift and a glory hole about 150 feet above the haulage level.

Production, including that of the operator, has been 2,296 flasks of mercury.

GEOLOGIC SETTING

The oldest rock in the mine area is limestone which is overlain successively by limestone-breccia and by shale. The sedimentary rocks have been folded along a northwest-trending axis and cut by northwest-trending normal faults that dip southwest.

The sedimentary rocks are part of the Pershing(?) formation which may correlate with the Dun Glen formation of Upper Triassic age farther north. The limestone is dark gray, finely crystalline, unfossiliferous, heavily veined with calcite, and contains black fissile shale in discontinuous lenses. The limestone-breccia has been called limestone-conglomerate, but more recently has been mapped (R. M. Wallace, 1958) as necrogenite, a variety of thrust fault breccia. It consists of limestone and dolomite fragments in a yellowish-brown dolomite matrix. Individual fragments are as large as 3 inches across, although they average a quarter inch. The shale in the mine area is exposed as an erosion remnant in the central part of a northwest-plunging syncline.

The principal fault is the Canyon fault which strikes northwest and dips 50°-75° SW. and cuts the south flank of the syncline. The southwest side of the Canyon fault is downthrown about 300 feet. Northeast of the Canyon fault a series of smaller faults trend generally west to northwest, dip 30°-50° SW. or NE. and have displacements of 20 feet or less. Cinnabar ore bodies are localized in the limestone-breccia and in the limestone beneath the shale along some of the smaller faults.

ORE DEPOSITS

The ore bodies are of two types, tabular and pipe-like. The tabular bodies lie between parallel faults and consist of pods, veinlets, and disseminated crystals of cinnabar in crushed limestone-breccia and

in white calcite veinlets cutting the limestone. The pipe-like bodies consist of cinnabar with lead and zinc minerals in the crushed zone along the intersection of faults. Near the surface the ore bodies have been oxidized.

Cinnabar, the only quicksilver mineral seen in the mine, occurs as crystals in the primary ore and as earthy masses in the oxidized ore. Small amounts of other primary sulfides--pyrite, sphalerite, and stibnite--are found locally in a gangue of calcite or quartz. Earthy cinnabar occurs with limonite, cerusite, hemimorphite, and bindheimite. Bailey[1/] suggests that the cinnabar

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1/ Bailey, E. H., and Phoenix, D. A., Dec. 1944; Quicksilver Deposits in Nevada: Univ. of Nevada Bull. Vol. 38, No. 5, p. 168.

---

was probably localized by a pre-existent lead-zinc ore body.

Three principal ore bodies and three smaller ones have been worked in the Redbird mine. All of them contained ore estimated to average more than 20 lbs. Hg/ton. The most productive stope, the Harolds Club stope, extends from below the 30-foot level up to the shale, about 40 feet vertically, and is 50 feet long and 20 feet wide. It is pipe-like and the ore appears to be localized by a northwest-striking, northeast-dipping fault. The old Northern stope

is about 8 feet wide, 75 feet long, and extends 70 feet up dip from the 30-foot level. The Young-Macabee stope extends along a vein about 50 feet up dip from the 30-foot level, is about 5 feet wide, and 90 feet long. A smaller ore body was mined from the West stope on the haulage level. This stope is on the same fault zone as the Young-Macabee stope and appears to be the downward continuation of the same pinching and swelling ore body. Two small ore bodies were discovered by the DMEA work. One in the DMEA winze contained about 400 tons which averaged 3.2 lbs. Hg/ton, and one in the DMEA drift above the Young-Macabee stope in the extreme north part of the mine contains reserves of about 600 tons averaging 7-10 lbs. Hg/ton.

THE PROJECT

The project was justified by the production of 2,270 flasks of ? mercury from stopes along the Redbird fault system, by the continuation of the faults into unexplored ground, and by inferred reserves of a few hundred tons of high-grade ore (20-30 lbs. Hg/ton) in the areas to be explored.

The work authorized consisted of drifting on the haulage level 250 feet in a westerly direction, and an additional 250 feet if approved by the Government, and raising 100 feet at a favorable location along the drift. Funds were authorized for 60 mercury assays.

Work under the first stage of the contract was started July 19, 1955 and was completed July 1, 1956. The drift was driven 283 feet along the vein and a 100-foot raise was driven from the drift along a cinnabar-bearing fault.

Amendment No. 1, dated February 20, 1956, authorized sinking a 75-foot inclined winze, from a point 140 feet east of the DMEA point of beginning, then drifting 58 feet off the bottom of the winze. The winze encountered ore-grade cinnabar about 30 feet below the collar, from which about 400 tons of material was subsequently mined. No ore was cut in the winze below the 45-foot point or in the 58 feet of drift.

After the work was completed the operator requested authorization for additional exploration to continue the winze down another 100 feet, then drift off the winze for 100 feet. The request was denied, but an alternate plan was proposed and accepted to drive a 45-foot crosscut and 100-foot raise from the crosscut at the end of the west workings, then drift not in excess of 300 feet on the most favorable showings in the raise. An additional 65 feet of raising was allowed to explore the most favorable showings in the sub-level drift. Amendment No. 2, dated March 1, 1957, authorized increased funds for the added work, extended the completion date to January 1, 1958, and extended the lien period to July 5, 1967.

Work on the revised project was started May 1, 1957 and was completed February 20, 1958. The 45-foot crosscut and 90 feet of 50-degree incline raising were completed. A sub-level drift was then run 215 feet easterly from the top of the raise along the vein to its intersection with old workings. A weakly-mineralized zone was encountered 143 feet from the raise and was explored by 75 feet of raise. Because of the poor showings in this area the operator requested authorization to explore favorable cinnabar leads from the northwesterly face of the Young-Macabee stope. Amendment No. 3, dated January 27, 1958, authorized the change in work location and also extended the contract completion date to May 1, 1958.

In the last 20 feet of the project work a small ore body (fig. 2, section A-A') was discovered above the Young-Macabee stope. The ore is in two parallel fracture zones which may correlate with the fault along the north side of the Harolds Club stope. The upper zone is 2 feet wide or less, and contains as much as 60 lbs. Hg/ton but averages 30 lbs. Hg/ton or less. The lower zone is 3-1/2 feet wide and contains about 7 lbs. Hg/ton. Reserves in this ore body are estimated to be:

Measured	a few tons	30 lbs. Hg/ton
Indicated	100 tons	7-10 lbs. Hg/ton
Inferred	500 tons	7-10 lbs. Hg/ton

The reserves in the DMEA winze (fig. 4) are inferred to be a few tons which, if hand-sorted, may contain 10 lbs. Hg/ton. There are no other reserves in the mine.

Expenditures

Expenditures of $31,310.00 were authorized in the contract by amendments. The unit costs are itemized as follows:

Drifting and crosscutting 628 ft. @ $29/ft. . . .	$18,212.00
Sub-level drifting 58 ft. @ $32/ft.	1,856.00
Raising 265 ft. @ $25/ft.	6,625.00
Sinking winze 75 ft. @ $60/ft.	4,500.00
Sample analyses for Hg, 11 @ $3.00/ea.	33.00
Total cost of the project	$31,226.00
Government's share of cost at 75 percent	23,419.50
Government's share unexpended	62.50

During the project the operator mined and retorted about 400 tons of cinnabar ore from the DMEA winze, on which royalty payments of $202.93 were made on 17 flasks of mercury.

Since the project was finished 9 flasks from about 30 tons of ore (20 lbs. Hg/ton) has been recovered from the ore body above the Young-Macabee stope. Royalty from this production had not been received as of July 15, 1958.

No equipment was purchased under the terms of the contract.

Sampling

Samples were taken wherever cinnabar was disclosed in sufficient amounts to warrant sampling. Assays are as follows:

Sample No.	Width, feet	Lbs. Hg/ton	Description
247	3.0	2.2	Calcite in black lime, 82-ft. point drift.
270	1.5	25.3	Cinnabar in calcite filling in vein, 96-ft. point.
276	1.5	0.2	205-ft. point drift.
280	0.7	37.0	HgS in calcite, top DMEA winze.
281	4.5	1.3	Small winze off haulage drift.
282	4.0	1.1	Left wall, No. 1 raise, 61-ft. point.
283	3.5	1.5	Right wall, No. 1 raise, 61-ft. point.
295	4.5	10.0	33-ft. point DMEA winze, off haulage drift.
309	1.0	2.2	45-ft. point winze, HgS in shale.
310	5.0	28.6	35-ft. point winze.
311	5.0	4.0	25-ft. point winze, HgS mostly in calcite seams.
312	6.0	26.6	Cuttings from 6-ft. drill hole, 45-ft. point winze.
313	6.0	11.8	" " " " " " , 35-ft. point "
314	6.0	0.8	" " " " " " , 25-ft. point "
340	3.0	<0.1	Vein material 10-ft. point, sub-level drift off winze.
341	5.5	<0.1	Vein 20-ft. point, sub-level drift off winze.
342	3.0	0.2	Vein 58-ft. point (face) sub-level drift.
343	5.0	3.8	Sub-raise driven off 25-ft. point winze.
344	5.5	8.3	Cont. of No. 343 into winze.
345	4.5	7.0	Cont. of No. 343 and No. 344 downward to footwall.
346	---	8.2	Grab sample of ore in bin, rep. about 60 tons.
495	2.0	0.1	15-ft. point on 74-sublevel drift.
514	4.0	0.3	117-ft. point on 74-sublevel drift, HgS in gouge
515	5.0	0.3	" " " " " " " face
5.6	4.0	1.0	122-ft. point, 74-sublevel drift face
560	2.0	3.2	Gossan vein material in drift north of Young-Macabee stope.
561	2.5	22.4	" " " " " " " " "
562	2.0	0.3	" " " " " " " " "

Samples taken from the face of the small drift off the north end of the Young-Macabee assayed as follows:

			% Pb	oz. Au	oz. Ag
566	spec.	13.8	1.7	0.03	0.90
567	3.0	5.3	1.3	0.02	0.40
568	2.0	18.5	3.4	0.04	1.05

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-3647
Idm-E838
(Mercury)

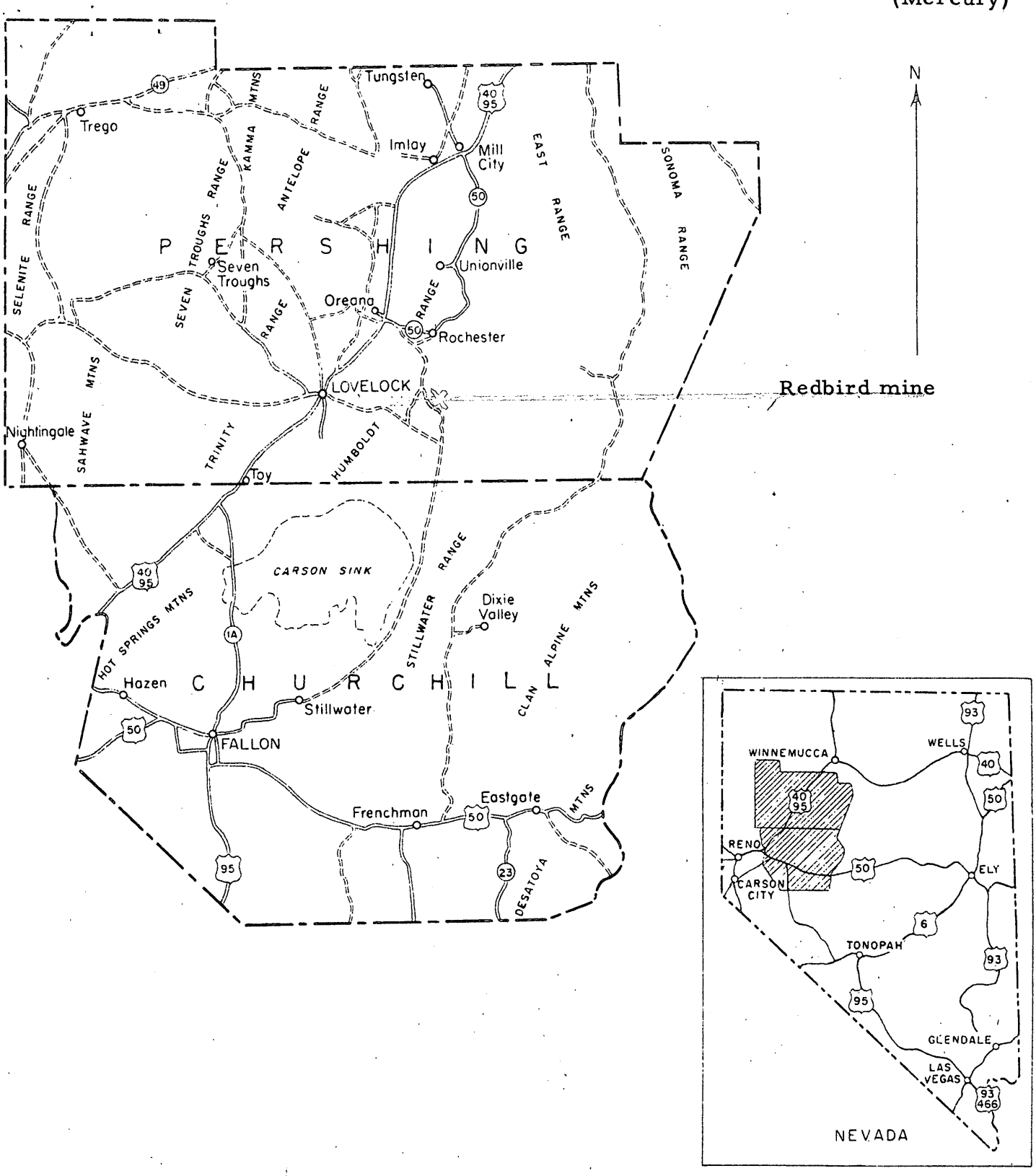


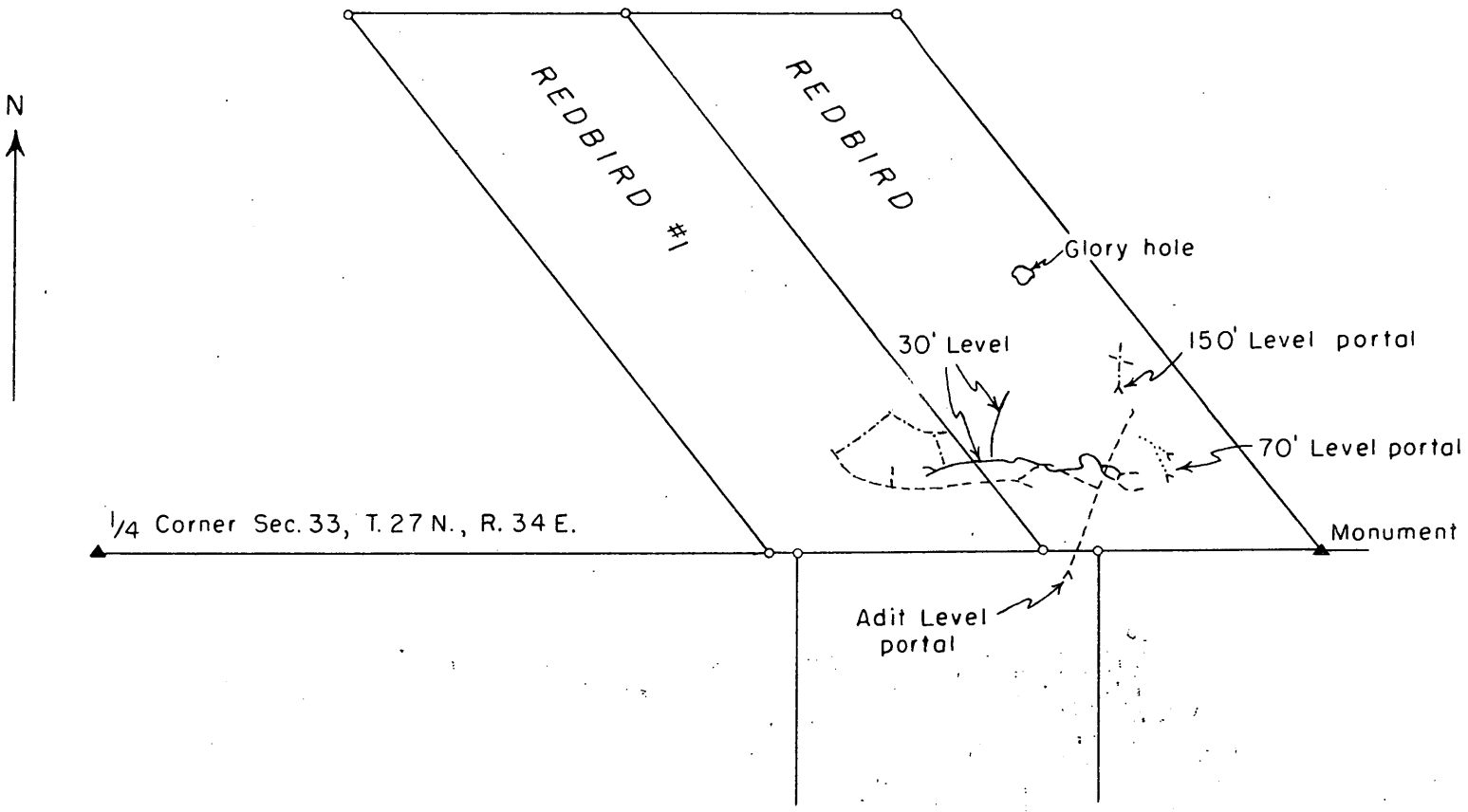
Figure 1. INDEX MAP OF CHURCHILL AND PERSHING COUNTIES, NEVADA

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 25 1958

DATE	INITIALS	CODE

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
(MERCURY)
Idm E-838



CLAIM MAP, REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

400 0 400 800 Feet

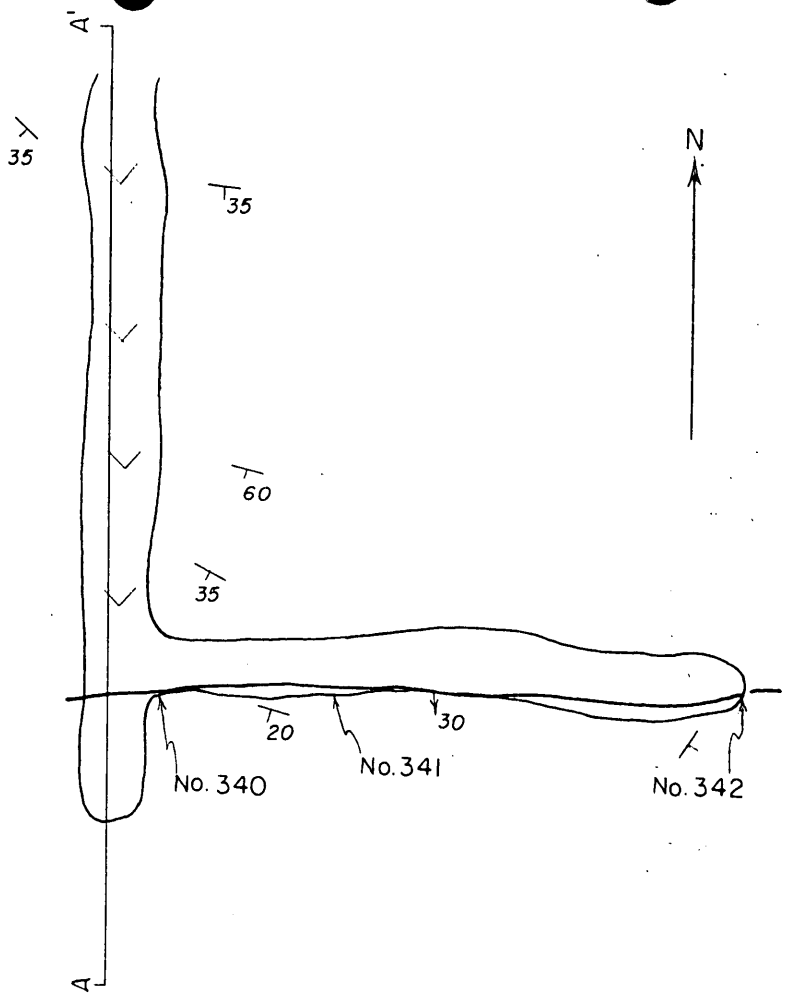
Figure 2

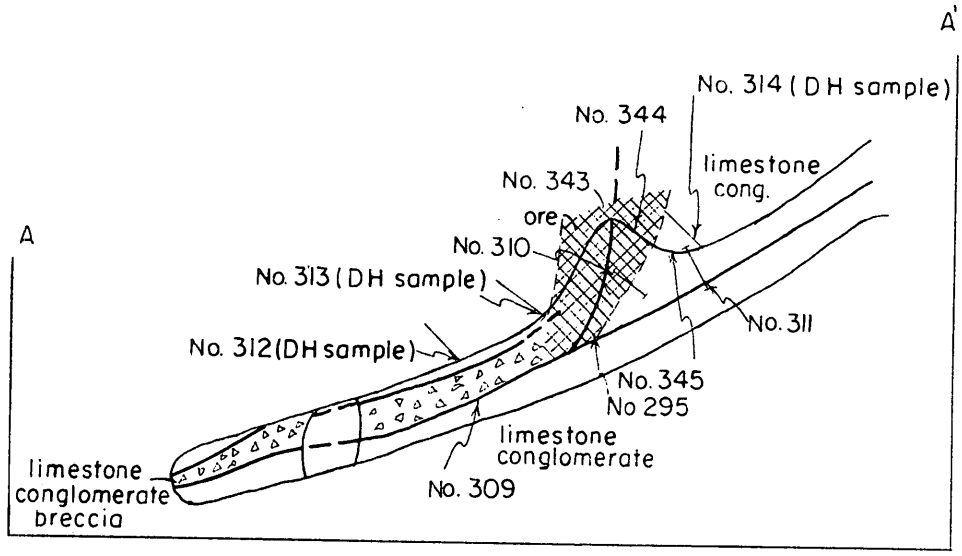
OFFICIAL FILE COPY
DMEA
RECEIVED JUL 25 1958

DATE	INITIALS	CODE

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
Idm E-838
(MERCURY)





DMEA WINZE AT REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

0 20 40 60 FEET

Figure 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

July 18, 1958

RECEIVED JUL 22 1958		
DATE	INITIALS	CODE
7/22	C	220
	WSM	400

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Stamp date by F.T.: Feb. 25, 1958

Our final report on subject project should be forwarded to Washington within a week. It will recommend certification, the time for which expires August 20. In the meantime, we are giving you our basis for certification, should you wish to start certification proceedings before receipt of the final report.

Property was explored by 628 feet of drifting and crosscutting on main haulage level and 340 feet of winzing and raising therefrom. In addition, 58 feet of sub-level drifting was completed. Significant cinnabar mineralization was disclosed in several places in the limestone conglomerate below the capping of shale along or adjacent to west-striking faults. Production has been 26 flasks of mercury from exploration and current operations. An additional 80 flasks are presently inferred.

S. Ricker

OFFICIAL FILE COPY

Date	Surname	Code
3/7	Talbert	800
3/10	C	220
/	WSM	400

MAR 7 1958

Mr. George Mavor
DIEA Auditor
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DIEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Mavor:

Your Report of Review in lieu of a final audit of the referenced project is acceptable and normal distribution is authorized after changing the date March 3, 1958, to March 7, 1958.

Changing the date of your report avoids the possibility of confusion as to the balance due the Operator. Your report shows $500.25, whereas our records indicate $1,152.75 as the balance due the Operator on March 3, 1958. The difference of $652.50 was approved for payment on March 3, 1958, but not actually paid until later.

Sincerely yours,

(Signed) E. D. Talbert

for Jay L. Chambers, Director
Contract Administration
and Audit Division

EDTalbert/ama
March 7, 1958

Copy to: Docket
Admr. Reading File
Mr. Chambers

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 28 1958

DATE	INITIALS	CODE
2/28	C	220
2/28	[illegible]	800
	WSM	400

February 26, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Enclosed are three copies of the Operator's final report on subject contract. We recommend that this report be accepted, as our audit and final report will give maps and details which this type of operator could not be expected to submit.

OPER's FINAL REPORT

The ore body referred to in your letter of February 4, 1958, at the conclusion of the contract, was exposed for a length of 25 feet, is 3 feet wide, and assays from 5 to 18 pounds of mercury per ton. The Operator is preparing to retort this ore. It is located on the northern extension of the Young-MacAfee stope.

S. Ricker

Attachments

Oper's Final Report

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 28 19
DATE | INITIALS | CO

FINAL REPORT ON CONTRACT Idm-E838 Docket No.DMEA 3647

Redbird Mine- Mercury

In our first stage of the DMEA loan we drifted 283 feet. Ninety feet of this was in a low grade cinnabar ore consisting ~~of a four~~ foot vein. It was a loose breccia and muddy practically ~~the full length~~ of the 283 feet. It was through a decomposed lime and limeshale. The ore showing carried in for 90 feet from the starting point and this 90 feet had a definite hard hanging wall, but from there on ~~it was through~~ a faulty and broken country entirely too loose a ground to contain any cinnabar. After finishing the 283 feet of the proposed 500 feet of drifting we decided to go back to the 90 foot point and put up a 100 foot raise.

We passed through a low grade ore for the entire length of the raise. When we reached 100 feet on the raise we were still in a low-grade ore. This was about a 2 pound ore.

We decided rather than continue drifting to 500 feet to sink a 75 foot winze and do 58 feet of sub-level drifting. This winze carried good mill ore down to the 60 foot level. It was through lime and lime shale. The vein was from three feetto four feet wide, but there were slips of black shale and calcite. Every few feet, about every five feet, we drilled six foot holes in the hanging wall and in all directions. The assays from these drill holes ran as follows:

No. 1 Taken on the vein at 15 feet	.17%
No. 2 Taken at 25 feet	.13%
No. 3 Taken at 30 feet	.17%
No. 5 Taken at 25 feet on hanging wall	.15%
No. 6 A 6 foot drill hole right of vein 35 feet	.61%
No. 7 Silicified lime face of vein 40 feet	.21%
No. 8 A 6 foot drill hole hanging wall 25 feet	.15%
No. 9 A 6 foot drill hole hanging wall 30 feet	1.30%

This vein on the winze went down at a 25 degree angle. The ore values continued down to 60feet and then a hard hanging wall came in and mud and the vein became very muddy. The mud carried no values but the hard silidified lime and calcite above it carried small values in cinnabar. At the end of the 75feet the vein took a definite dip to a 45 degree angle. The vein was 28 inches wide. At 60 feet down we started the 58 feet of sub-level drifting.

The first 15 feet had a hard hanging wall but the remainder of the 58 feet was in mud and through faulty silicified lime and black shale. This finished the first stage.

On the completion of the 75 feet of raise and 58 feet of sub-level drifting it was my opinion that more work should be done on this winze so we put in for the second DMEA loan for the sinking of an additional 100 feet of winze and 100 feet of sub-level drifting at the bottom of the proposed winze or at the best location along the proposed winze but the DMEA engineers did not approve of this, they thought it best to go back to a point 268 feet in from where we did our first drifting and drift N. 45 feet and then run up a raise at a 45 degree angle until we contacted the vein and then drift on the vein. This we did.

We drifted NE 45 feet and then raised up 90 feet until we contacted the vein. This vein was entirely in a brown shale. At approximately 75 feet we contacted the vein and started drifting. We went in 212 feet through mud and broken-up vein then we contacted low-grade ore. It was

evidently the same ore body we had picked up below on the first drifting. This ore body was quite extensive, no particular vein but cutting through the country with a valuation of 2 to 3 pounds, too low grade to be worked now but a good thing to map for the future reserves in case there was ever a cinnabar shortage in this country, then it could be worked.

This ore body consisted of calcite, decomposed limes and black lime shale. We continued on this ore body until we broke into a raise under the Macabee stope. Then we went back on the drift 56 feet and started a raise. This raise was in low grade ore, about 2 pounds value and went up at about a 10 degree angle. We went up 75 feet on this raise. It continued full length in low grade orebut the vein finally flattened out and for 10 or 15 feet it was level and then took a downward course. At the completion of this 75 feet we came to the conclusion again that it would be of no advantage to go any further as the dip and the angle it was taking it would run into the Macabee stope, so we decided it would be best to revise the contract and do the balance of the drifting in back of the Macabee stope.

At a point in 30 feet on the 85 feet of drifting we commenced picking up antimony. This has always been a very good sign in the Redbird Mine that orebodies are ahead. Most of this drifting was in hard lime and a small seam of vain material. When we hit this antimony we followed it. This was a very good decision for this has led into a body of ore and at the end of the 85 feet we are now in a vein 5 feet wide consisting of cerrusite, anglesite, cinnabar, silver, copper and iron. Until we have a thorough analysis we will be unable to tell what values these have.

This has been characteristic of the Redbird Mine. It is the only mine known that has put out Robinsonite which is lead, silver, antimony and cinnabar mixed. The Harold's Club stope consisted of this and I understan there is a sample on display at the School of Mines in Reno. We have had requests from as far away as Germany for samples of this ore. It is a pale red ore and very heavy. It can be retorted but causes difficulty b because it gets gooy and sticks in the retort. It can be run through a furnace and the cinnabar extracted and then if the values are high enough in the lead and silver it can be shipped to the smelter. They did this with the ore that came from the Harold's Club stope which was 14 % lead .

In closing this report I will say that there has not been enough work done on this vein to tell the extent of it. This closes the final stage of the DMEA contract.

C.A.Coppin

Redbird Leasing Co.
Lovelock, Nevada

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

February 19, 1958

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Enclosed are the Government's and Audit copies of Amendment No. 3 to subject contract executed by the Operator. The remaining copies have been distributed in the usual manner.

S. Ricker

Attachments

DMEA
RECEIVED FEB 21 1958

		CODE
2/21	C	220
	WSM	400

Amend #3

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 6 195

DATE	INITIAL	CODE
2-6	C	230
2/7	[illegible]	800
	WSM	400

1605 Evans Avenue
Reno, Nevada

February 4, 1958

Mr. C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Mine
Pershing County, Nevada
Contract No. Idm-E 838

Dear Mr. Coppin:

Enclosed are the original and four copies of a proposed Amendment No. 3 to above-referenced contract, signed by the Administrator for the Government.

If the amendment meets with your approval, all five copies should be signed by you. The copy marked "Operator's copy" should be retained by you and the original and other three copies should be returned to this office.

If any part of the amendment does not meet with your approval, the original and all copies should be returned with your suggested changes.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments
SRicker:ft
cc: Opr. Com., DMEA, Wash., D.C.
Finance Office, Reg. II
Geo Mavor
RMSmith
File
Chron

OFFICIAL FILE COPY

Date	Surname	Code
1/31	Holt	400
1/31	Martin	400
2/3	[illegible]	130
"	[illegible]	110
"	Whitendorf	100
2/4	C	220
		400

FEB 4 1958

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Ricker:

Your letter of January 20 (16) with copies of a suggested Amendment No. 3 to the above-captioned contract, was received after our version of the same proposed amendment had been prepared, so we sent ours to you for presentation to the Operator.

In your letter accompanying the suggested amendment you mentioned significant mineralization, worthy of additional exploration, discovered by the Operator since your memorandum of December 30, 1957. We would appreciate your advice as to the location, size and grade of the new discovery.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

SPHolt:foc 1-/31/58
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958

DATE		CODE
1/20	C	220
		130
	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

January 16, 1957

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

In accordance with recommendation in Interim Report dated December 20, 1957, in which Roscoe Smith and I concur, I am sending you a suggested Amendment No. 3 for your consideration. We could probably have approved the footage change but the extension of completion time requires your approval.

Since my memorandum of December 30, 1957, the Operator has discovered significant mineralization worthy of additional exploration work.

S. Ricker

Attachments

Contract
July 5, 1955 Jan 1, 1956
Royalty July 1965
Amendment No 1
Comp. to July 1, 1956
Royalty to July 5, 1966
Amendment No 2
Comp. to January 1958
Royalty to July 5, 1967

Amendment 3 - (by F.T.)
Not used -
See our Amendment 3,
forwarded with letter
of Jan 27, 1958
S.P.H.

BUREAU OF LANDS
WASHINGTON, D.C.
JAN 20 1 15 PM '58

Government's copy

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1959
CODE

EXPLORATION PROJECT CONTRACT
C. A. Coppin
DOCKET NO. DMEA-3647

AMENDMENT NO. 3

It is agreed this 15th day of January, 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and C. A. Coppin that Exploration Project Contract No. Idm-E 838 (Docket No. DMEA-3547) dated July 5, 1955, as amended, is further amended, effective December 1, 1957, as follows:

1. The time for completion of the work is extended from January 1, 1958 to April 1, 1958.

2. Apply 85 feet of drifting under Amendment No. 2, Stage III, to explore in the vicinity of Young-Macabee stope area as shown on attached Figure 4.

3. The maximum period for royalty payments and liens to secure the payment thereof is further extended from July 5, 1967 to 13 years from the date of the Contract (i.e. to July 5, 1968).

This amendment shall not be construed to increase the estimated cost of the project nor the aggregate total amount which the Government may be required to contribute.

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

_____
C. A. COPPIN

Government's copy

AMENDMENT NO. 3

Docket No. DMEA-3647 Mineral Mercury

Exploration Project Contract Idm-E 838

Date of Contract March 1, 1957

Date of Amendment January 15, 1958

Operator C. A. Coppin

JUSTIFICATION

Discovery of a significant mercury mineralization justifies continuation of contract. The change in location of footage remaining in the contract will enhance the possibility of additional production from the property and possibility of repayment of Government's contribution to the cost of project.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958
DATE CODE

S. Ricker, Executive Officer
DMEA Field Team, Region III

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1-22	Holt	400
1-22	Martin	400
1-23	Chambers	800
1/27	[illegible]	130
"	Johnson	110
"	[illegible]	100
1/27	[illegible]	220
		400

JAN 27 1958

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-7838

Dear Mr. Ricker:

In accordance with the request of the Operator, transmitted by the Field Team examiners with their favorable recommendation, in the Interim Report of December 20, 1957, enclosed are the original and four copies of a proposed Amendment No. 3 to the above-referenced contract, signed by the Administrator for the Government. Two extra copies are enclosed for the use of the Field Team.

If the terms and conditions of this proposed amendment are satisfactory to you and the Operator, all five copies should be signed by the Operator and the usual distribution made.

If any part of the proposed amendment does not have your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes for consideration.

Sincerely yours,

Enclosures

George C. Selfridge

APPROVED:

Chairman, Operating Committee (SHB)

Frank D. Lamb (SHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (SHB)
Member, Geological Survey

SPHOLT/dlm 1-22-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. II
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/9/58	Holt	400
1/9/58	Martin	400
		140

January 9, 1958

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Preparation of Amendment No. 3
Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Mine
Pershing County, Nevada
Contract No. Idm-E838

Attached is rough draft of an Amendment No. 3 to the above-captioned contract for your use in preparing it in final form.

W. S. MARTIN

W. S. Martin, Director
Division of Iron and
Ferro Alloys

Attachment

SPHOLT:foc
1-9-58
cc to: Docket
Code 400

8623

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA 3647

It is agreed this _____ day of _____, 1958, between the United States of America, acting through the Defense Minerals Exploration Administration, and C. A. Coppin, that Contract No. Idm-E838, (Docket No. DMEA 3647), dated July 5, 1955, as amended, is further amended, effective December 31, 1957, as follows:

1. The time for completion of the work is further extended, from January 1, 1958, to May 1, 1958.

2. In Exhibit "A", under the heading Description of the Work as amended by Amendment No. 2, under Stage III, add:

The following map is attached hereto and made a part hereof:

Figure 4 (revised), Redbird Quicksilver Mine, Pershing County, Nevada.

and, in item (c) change 300 feet to 215 feet, and add a new item:

"(d) From the northwesterly face of the Young-Macabee stope, at sill elevation plus approximately 94 feet, drift northwesterly along the mineralized zone for a distance not to exceed 85 feet."

This amendment shall not be construed to increase the estimated cost of the project nor the aggregate total amount which the Government may be required to contribute.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals Exploration Administration

_____
C. A. Coppin

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. IMEA 3647

AMENDMENT NO. 3

JUSTIFICATION

The Operator requested and the Field Team examiners, in an Interim Report of December 20, 1957, recommended that 85 feet of drifting, authorized by the contract, and remaining unused, be transferred to permit driving a drift northwesterly from the northwest end of the Young-Macabee stope, at sill elevation approximately plus 94 feet, along a mineralized zone containing cinnabar, and having a reasonable probability of discovering a significant ore body.

This Amendment No. 3 has been prepared to authorize the requested transfer of drift footage.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 6 1958
DATE | DETAILS | CODE
1/6 gb 220
wsm 400

1605 Evans Avenue
Reno, Nevada

December 30, 1957

Mr C. A. Coppin
P. O. Box 578
Lovelock, Nevada

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Mine
Pershing County, Nevada
Contract No. Idm-E 838

Dear Mr. Coppin:

We have your vouchers for the month of December 1957, together with narrative, in which we note the last sentence states this closes out the contract.

We suggest that you write a letter to us requesting termination of the contract.

Please refer to Article 6 (c) in the contract, relative to the final report. Will you please favor us with the required final report in order that we may complete processing of the December account?

Very truly yours,

/for/ S. Ricker
Executive Officer
DMEA Field Team, Region II

GGG:ft
cc: Opr. Com., DMEA, Wash., D.C.
Finance Office, Region II
GeoMavor
RMSmith
File
Chron

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1957

DATE	INITIALS	CODE

March 12, 1957

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Reference is made to your letter of March 1, 1957 relative to subject contract.

Enclosed are the Government's, Division, and Docket copies of Amendment No. 2 which have been executed by the Operator. The remaining copies have been distributed in the usual manner.

S. Ricker

Encls.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/5	C	220
		225

MAR - 5 1957

Mr. George Mavor
DMEA Auditor
420 Custom House
555 Battery Street
San Francisco 11, California

Re: First Report of Royalty Review
Idm-F681, DMEA-3253
Cuneo, Carribotti, et al

and

Idm-3638, DMEA-3647
C. A. Coppin

Dear Mr. Mavor:

Receipt is acknowledged of your First Reports of Royalty Review covering the above-cited projects.

Both reports are acceptable and normal distribution is authorized.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

WBorovies/wb
March 4, 1957

Copy to: Docket (2)
Admf. Reading File
Mr. Chambers

8623

1605 Evans Avenue
Reno, Nevada

March 4, 1957

Mr. C. A. Coppin
Upper Valley
Lovelock, Nevada

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838

Dear Mr. Coppin:

Enclosed are the original and five copies of a proposed Amendment No. 2 to the above-referenced contract, signed by the Administrator for the Government.

If the terms and conditions of this proposed Amendment No. 2 are satisfactory, all six copies should be signed by you. The copy marked "Operator's copy" should be retained by you and the original and other four copies should be returned to this office.

If any part of the proposed amendment does not meet with your approval, the original and all copies should be returned together with your suggested changes.

S. Ricker

Encls.
SRicker:ft
cc: Opr. Com., DMEA, Wash., D.C.
Finance Office, Region II
GeoMavor
RMSmith
File

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DMEA
RECEIVED MAR 6 1957

DATE	INITIALS	CODE
3-6	C	220
3/6		800
		225

DMEA Form 7
(12-56)

400

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Date	Surname	Code
2/27	Holt	400
2/27	Heaton	400
2/27	Talbot	~~300~~
3/1	Johnson	110
1	Dittendorf	100
3-4	C	225
2/28	Selfridge	~~300~~ 130

MAR - 1 1957

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-2838

Dear Mr. Ricker:

Enclosed are the original and five copies of a proposed Amendment No. 2 to the above-referenced contract, signed by the Administrator for the Government. Two extra copies are enclosed for the use of the Field Team.

If the terms and conditions of this proposed amendment are satisfactory to you and the Operator, all six copies should be signed by the Operator and the usual distribution made.

If any part of the proposed amendment does not have your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes for consideration.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SHB)

APPROVED:

Frank D. Lamb (SHB)
Member, Bureau of Mines

N. E. Nelson (SHB)
Member, Geological Survey

Enclosures

SPHolt/esf - 2/26/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Committee
FT. REG. II
Messrs: J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

February 28, 1957

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E 838
(Supplemental Application Report)

The Operator would appreciate knowing what action he can expect relative to his supplementary application for aid on subject property. Four months have elapsed since our report of November 1, 1956 was forwarded to Washington and over two months since we replied to your letter of December 6, 1956 relative to the same.

S. Ricker

RECEIVED MAR 7 1957

DATE	INITIALS	CODE
3-7	C	220
		225

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/15	Holt	400
2/15	Martin	400
		140

February 15, 1957

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Iron and Ferro-Alloys Division, DMEA

Subject: Preparation of Amendment No. 2
Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Attached is a rought draft of a proposed Amendment No. 2 to the above-captioned contract for your use in preparing in final form.

W. S. Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

SPHOLT:foc
2/15/57

cc to: Docket
Code 400

RECEIVED
FEB 18 1957
ASSOC. SOLICITOR
MINERAL RESOURCES

8623

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA 3647

AMENDMENT NO. 2

It is agreed this _____ day of _____, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and C. A. Coppin, that Contract No. Idm-E838, (Docket No. DMEA 3647), dated July 5, 1955, as amended February 20, 1956, is further amended, effective July 1, 1956, as follows:

1. In Article 5 of the Contract the estimated total cost of the project is changed from $17,180.00 to $31,310.00, and the Government's contribution at 75 percent is changed from $12,885.00 to $23,482.50.

2. In Article 3 of the Contract the time for completion of the work is further extended, from July 1, 1956 to January 1, 1958.

3. In Article 7(b) of the Contract the period for royalty payments and lien to secure the payment thereof is further extended from 11 years to 12 years (or to July 5, 1967).

4. In Exhibit "A", Description of the work, a new item is added, as follows:

STAGE III

Maps, titled "Figure 4, Redbird Quicksilver Mine, Pershing County, Nevada", and "Figure 6, Section Through Proposed Work, Redbird Quicksilver Mine, Pershing County, Nevada", are attached hereto and made a part hereof.

a. Crosscut 45 feet northeasterly from a point at the west end of the main haulage drift, as advanced under Stages I and II of this Contract, (Figs. 4 and 6). The size of the crosscut shall be not less than

5 feet by 7 feet in the clear.

b. Raise, at a 45 degree angle, northeasterly from the face of crosscut, (item a), about 65 feet to intersect the vein at about the 100-foot slope distance point (Fig. 6), then raise an additional 100 feet along the vein, (Fig. 4 and 6). The size of the raise shall be not less than 4 feet by 7 feet in the clear.

c. From the most favorable horizon along the raise drift northwesterly or southeasterly, or in both directions, (Figs. 4 and 6), not to exceed 300 feet total aggregate length. The size of drift or drifts shall be not less than 5 feet by 7 feet in the clear.

5. In Exhibit "A", Description of the Work, Estimated Costs of Project, add a new item, as follows:

STAGE III

345 feet of crosscutting and drifting @ $29.00/ft.	$10,005.00
165 feet of raising @ $25.00/ft.	4,125.00
	$14,130.00

and change Estimated Total Fixed Unit Costs from $17,180.00 to $31,310.00, and Government Participation @ 75% from $12,885.00 to $23,482.50.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED DEC 20 1956 D.M.E.A.

1605 Evans Avenue
Reno, Nevada

December 18, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838
(Supplemental Application Report)

Reference is made to your letter of December 6 requesting comments on subject application report.

We remain of the opinion that our recommendation would be more expedient than that recommended in the supplemental application report. After discussion, our engineer and geologist concur in our recommendation that Item 1 be deleted.

1. To explore from Item 1 raise would require rehabilitation of 30-sublevel, and a slusher drawing point would have to be established at bottom of raise. A slusher drawing point would also have to be established connecting sublevel with the main haulage level.

2. Young-Macabee stope averages only 2 feet in width in the area in question. Two slusher drawing points would also be required as well as rehabilitation of the eastern part of sublevel.

BUREAU OF MINES
WASHINGTON, D. C.

DEC 20 8 50 AM '56

3. Main haulage level is in excellent condition and more suitable for a long range operating level as well as a starting point for future exploration or development.

4. The over-all cost of both methods would be approximately the same. Using the sublevel would call for a three man job in comparison to a two man job as at present.

Early consideration would be appreciated by the operator. In this respect, I might add that this has been one of our best run small projects.

S. Ricker

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 20 DEC 1956

REFERRED TO:

1. ~~H Berry~~
2. Mr Seffudges
3.
4. 400

3647

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: .....

Check (X) before the items needing attention.

Cw
Initials of sender.

GPO 16—63815-1

SPH
Wasn't this something
that GCS suggested
to McMahon
Apparently yes - See
Comm. Comm. Letter of
Dec. 6, 1956, cited by
Cooper -

Mrs. Compelling was to get
Party Farm readers to alternation

As per - Discuss with Dir.

Suggest alternate program

(1) Sublevel crosscut or drift in favorable horizon under shale west from Young-Macabee stope.

(2) Raise with crosscut or drift from end of DMEA work west into favorable horizon under shale.

FEJohnson

Docket 3[illegible]7
C. A. Copman

Nelson says no good, but concerns

Johnson suggests a P.S. on letter as it is written, suggesting two alternative proposals. See paper here in docket.

George suggests you talk it over with Mr. Johnson

Re: letter to F.T. — P.S. added
mdm
12/4

S.P.H.
7:00 [illegible]

DOCKET
SURNAME
McMahon
600 Martin
Jeffrey
Johnson
Matthews

DEC - 6 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Bynum Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coggin
Redhird Quicksilver Mine
Pershing County, Nevada
Contract No. 14s-2838
(Supplemental Application Report)

Dear Mr. Ricker:

Reference is made to Roscoe M. Smith's memorandum of November 2, 1956, transmitting a Supplemental Application Report, dated October 30, 1956, by H. W. Jones, U. S. Bureau of Mines, and R. G. Reeves, U. S. Geological Survey.

The examiners recommend the following exploration:

1. A 100-foot raise from the 30-level to explore the favorable zone west of the Young-Chenoa stope.

2. From the northwest end of the main level:

(a) Crosscut northwesterly 45 feet.
(b) Raise from the end of the crosscut at 40°, to intersect the vein at the slope 100 foot point.
(c) Extend the raise an additional 100 feet along the vein.
(d) From the most favorable horizon along the raise drift northwest or southeast or in both directions, not in excess of 300 feet.

In Roscoe M. Smith's memorandum he states that you and he agree that more work is warranted but recommend denial of item 1 above as it would explore the same area as the proposed sublevel drift, 2(d).

The consensus here is that the first raise would explore the vein for the full height of the raise and a sublevel drift S W at the most favorable horizon would test the same target as that of item 2(d). Therefore, we would appreciate your comments pointing out

R.C.S.

the advantages of exploring from the raise at the N.W. end of the main tunnel rather than from the 30-level raise. Please also comment on the estimated relative costs of each project.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HS)

APPROVED:

Frank D. Lamb (JB)

Member, Bureau of Mines

Thor H. Kiilsgaard (JB)

Member, Geological Survey

P. S: Also, please comment on the feasibility of drifting west from the west end of the Young-Macabee stope at the most favorable horizon, or from the top of the raise that connects the stope with the north crosscut on the 30-level if work nearer the limestone-shale is considered more promising.

ADMcMahon/foc
11/29/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED NOV 16 1956 D.M.E.A.

November 14, 1956

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Supplemental Application Report, Docket No. DMEA 3647 (mercury), C. A. Coppin, Redbird Mine, Pershing County, Nevada. Contract Idm-E 838. $17,096.00

According to the report by H. W. Jones, Bureau of Mines, and R. G. Reeves, Geological Survey, on this project, the DMEA exploration work discovered a cinnabar ore body containing 160 tons of indicated ore and 800 tons of inferred ore with an estimated average grade of 20 pounds of mercury per ton. Up to September 21, four flasks of mercury had been produced from this ore body.

I concur with the Field Team's recommendation that a Certificate of Discovery be issued.

Additional exploration of the property is now proposed. It would consist of a 100 foot raise from the 30 level to explore the favorable zone west of the Young-Macabee stope; a 45 foot crosscut and 40° raise from the crosscut; and a maximum of 300 feet of drifting from the most favorable horizon along the latter raise. Estimated total costs are $16,630.00.

It is suggested that drifting along favorable horizons from the first raise be considered. Perhaps this work along with some exploratory drilling would show that the second raise was unnecessary.

I agree with the recommendations of the Field Team for additional exploration above the 30 level and west of the Young-Macabee stope.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

IN REPLY REFER TO:

November 8, 1956

Re: DMEA 3647, Idm-E838
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Supplemental Application Field Team Report

The applicant was awarded a contract in 1955, authorizing the expenditure of $17,180.00; $17,096.00 of that amount was spent. Certification is recommended in the subject report. The recommendation is based on the 'discovery' of a small tonnage of ore in a winze.

The applicant now requests assistance in deepening the winze 100 feet and drifting 100 feet, but the examiners recommend an alternate work program considered likely to result more favorably. It consists of crosscutting, raising, and drifting. The reason for the raising is to reach a limestone conglomerate horizon where cut by a fault believed to be directly related to the ore bodies mined in the Young-Macabee stope, the source of considerable ore.

The mine is credited with the production of 2,270 flasks of mercury in the Application Report dated May 3, 1955. Probably four or five flasks have been produced since. The value of the 2,275 flasks at $\frac{\$253 + 255}{2}$ ($254.00) per flask is $577,850.

For reasons not apparent the work to the west under the contract has not resulted in reserves or prospects of reserves commensurate with the expenditure and the recommended work holds little promise of doing better. However, I concur with the recommendations of the examiners.

T. H. Kilsgaard
For: N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED NOV 5 1956 D.M.E.A.

1605 Evans Avenue
Reno, Nevada

November 2, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird mine
Pershing County, Nevada
Contract No. Idm-E838
(Supplemental Application Report)

Enclosed are the original and three copies of subject report by H. W. Jones and R. G. Reeves recommending that a certificate of discovery be issued and that the Government participate in additional exploration.

Mr. Ricker and I agree that more work is warranted but we recommend that only a part of the work be approved, and that the proposal to raise at Sample No. 169 (fig. 4) be denied. This raise is to explore a small showing of 3.7 lb. rock, but is largely duplication as it would explore the same area as the proposed sublevel drift.

Roscoe M. Smith
Actg. Executive Officer

Encl.

HB

The Closed Committee 12/5/56 as a final 22. Report + Report of Exam for additional work.
HB 12/5/56

Reviewed by
DMEA OPERATING COMMITTEE
12-5-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

RECEIVED
NOV 5 1956
DMEA

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

SUPPLEMENTAL APPLICATION REPORT

DMEA-3647, Idm-E838 (Mercury)
C. A. Coppin
Redbird mine
Pershing County, Nevada

by

H. W. Jones
U. S. Bureau of Mines

R. G. Reeves
U. S. Geological Survey

October 30, 1956

Reviewed by
DMEA OPERATING COMMITTEE
12-5-56
(date)

RECEIVED NOV 5 1956

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Introduction	1
Previous DMEA Exploration	1
Sampling	2
Geology and Ore Deposits	3
Proposed Additional Exploration	4

ILLUSTRATIONS

Figure 1 . . . . . Location map

2 . . . . . Claim map

3 . . . . . Plan and Sections

4 . . . . . Underground map

5 . . . . . The DMEA winze

RECEIVED NOV 5 1956 D.M.E.A.

INTRODUCTION

On May 18, 1956 C. A. Coppin applied to the Defense Minerals Exploration Administration for additional exploration at the Redbird mine, Pershing County, Nevada (fig. 1) prior to completion of contract Idm-E838.

The mine property consists of two unpatented lode claims, the Red Bird and Red Bird No. 1, recorded on page 90, book 3, Recorder's office, Pershing County, Nevada (fig. 2). The applicant has a five-year lease on the property dated January 7, 1955. All of the proposed additional work is within the two claims.

PREVIOUS DMEA EXPLORATION

Exploration under contract Idm-E838 was completed July 1, 1956, at a cost of $17,096.00, of which the Government contributed $12,822.00. The purpose was to explore for additional cinnabar ore bodies along a westerly-striking fault zones. A drift on the lower, or main haulage, level was extended 283 feet in a westerly direction, and a 100-foot raise was driven off the drift along a cinnabar-bearing fault structure. Several small cinnabar-bearing bodies were cut in the drift, but the last 200 feet contains only a few scattered grains, and the last 40 feet contains no cinnabar. The raise is along a

12 to 30 degree south dipping mineralized fault zone that ranges from 1 to 4 feet wide and averages 3 feet wide. The grade of the cinnabar material in the fault zone ranges from 1.1 to 25.0 lbs. Hg/ton, and is estimated to average about 3 lbs. Hg/ton. The raise ended in a sparsely mineralized area.

An amendment provided for reallotment of funds to sink a 75-foot winze and to drift 58 feet along the fault near the bottom of the winze (fig. 5). A cinnabar ore body was discovered at 30 feet down the winze. The ore body contained 160 tons of indicated ore and 800 tons of inferred ore. The grade ranges from 4 to 28.6 lbs. Hg/ton, and is estimated to average about 20 lbs. Hg/ton. No ore was cut in the easterly driven drift, and the face of the winze is barren.

The operator is now mining and retorting ore from the body cut in the winze. Four flasks of mercury had been produced from this body to September 21, 1956.

It is recommended that a certificate of discovery be issued.

SAMPLING

Samples were taken in localities showing visible amounts of cinnabar. Other areas were considered too low in grade to be of interest.

Sample No.	Length, feet	Lbs. Hg/ton	Description
247	3.0 vert.	2.2	Drift face 82 ft., recemented vein filling, calcite.
270	1.5	25.3	Footwall side vein, 90 ft. point of drift.
276	1.5	0.2	Occasional crystal Hg, 205 ft. point of drift.
280	0.8	37.0	Face small cut (winze put down at this point).
281	4.5 vert.	1.3	Mercury min. in small cross drift (near winze).
282	4.0 vert.	1.1	51 ft. point raise, left wall.
283	3.5	1.5	48 ft. point raise, right wall.
295	4.5	10.0	Gouge material at 33 ft. point winze, lime shale hanging wall.
309	1.0	2.2	Shale below drill hole at 45 ft. point winze.
310	5.0	28.6	Ore material at 35 ft. point winze, above mud seam.
311	5.0	4.0	Vein material at 25 ft. point, Hg mostly in calcite.
312	6.0	26.6	6.0 ft. drill sample taken at 45 ft. point winze.
313	6.0	11.8	6.0 ft. drill sample taken at 35 ft. point, rt. side winze.
314	6.0	0.8	6.0 ft. drill sample taken at 25 ft. point winze.
340	3.0	<0.1	Mud seam at inters. drift and winze.
341	5.5	<0.1	Gouge area at 20 ft. point sublevel drift.
342	3.0	0.2	Right side 60 ft. point, sublevel drift face.
343	5.0	3.8	Top of operator's raise in winze.
344	5.5	8.3	Cont'd. downward sample of above, along raise.
345	4.5	7.0	Cont'd. downward sample to mud seam.
346	grab	8.2	General ore sample rep. about 60 tons in bin.

GEOLOGY AND ORE DEPOSITS

The mine workings are mainly in limestone of the Upper Triassic Dun Glen formation, which in the vicinity of the mine consists of limestone conglomerate overlain by shale (fig. 3). These are folded into a shallow, northwesterly-plunging syncline. The south flank of the syncline is cut by a major northwest-trending fault, the Canyon fault, that dips 50° to 75° SW. The southwest side

of the Canyon fault is downthrown; displacement is about 300 feet. Other faults that trend generally west to northwest and dip from 30° to 50° south and southwest cut the sedimentary rocks.

The ore bodies are in the limestone conglomerate, along or near the 30° to 50° south-dipping faults. The larger ore bodies occur mainly in a favorable zone just below the shale unit, which probably formed an impermeable barrier to the mercury-bearing solutions and caused them to "spread out" into fractures and along faults in the limestone. It appears significant that these bodies pinch out downward, away from the shale, at about the same horizon.

The ore body cut in the winze is at the intersection of the flat fault followed down the winze and a branch fault. This branch fault is believed to be the one that is cut in the main level drift 160 feet west of the winze (fig. 4).

PROPOSED ADDITIONAL EXPLORATION

The applicant proposes to sink the winze (Sec. B-B', fig. 3) 100 feet, and to do 100 feet of drifting from the winze. It is concluded that the chances of success in this are small for the deeper the winze, the farther away it is from the favorable zone. Although the favorable zone is dropped down on the hanging-wall side of the Canyon fault, it could be explored by

short adits from the surface. This zone is not, however, within the applicant's property.

One favorable horizon remains in the area under control of the applicant, above the 30 level and west of the Young-Macabee stope. It is probable that other ore bodies occur west of the end of the 30 level and above the main level. Three of the major stopes bottom on or slightly below the 30 level; these would have been missed on the lower level because this level is too far below the shale-limestone conglomerate contact.

It is recommended that a 100-foot raise be driven from the 30 level, just west of sample No. 169 (fig. 4) to explore the favorable zone west of the Young-Macabee stope. It is further recommended that a 45-foot crosscut and 40° raise extending from the crosscut end point be driven northeasterly from the end of the haulage drift to intersect the vein at the slope 100-foot point, then drive the raise an additional 100 feet along the vein. From the most favorable horizon along the raise drift northwest or southeast, or in both directions, not in excess of 300 feet. The location of the drifts should have prior approval of the field team.

This revised program has been discussed with, and is agreeable to, the applicant.

Exploration Costs

The revised exploration program recommended by the field team would cost $16,630.00; the Government's share of this cost, based on 75 percent participation, would be $12,472.50.

The costs of the revised project taken from the previously submitted estimates, contract Idm-E838, are summarized as follows:

345 ft. crosscutting and drifting @ $29/ft.		$10,005.00
265 ft. raising @ $25/ft.		6,625.00
	Total:	$16,630.00

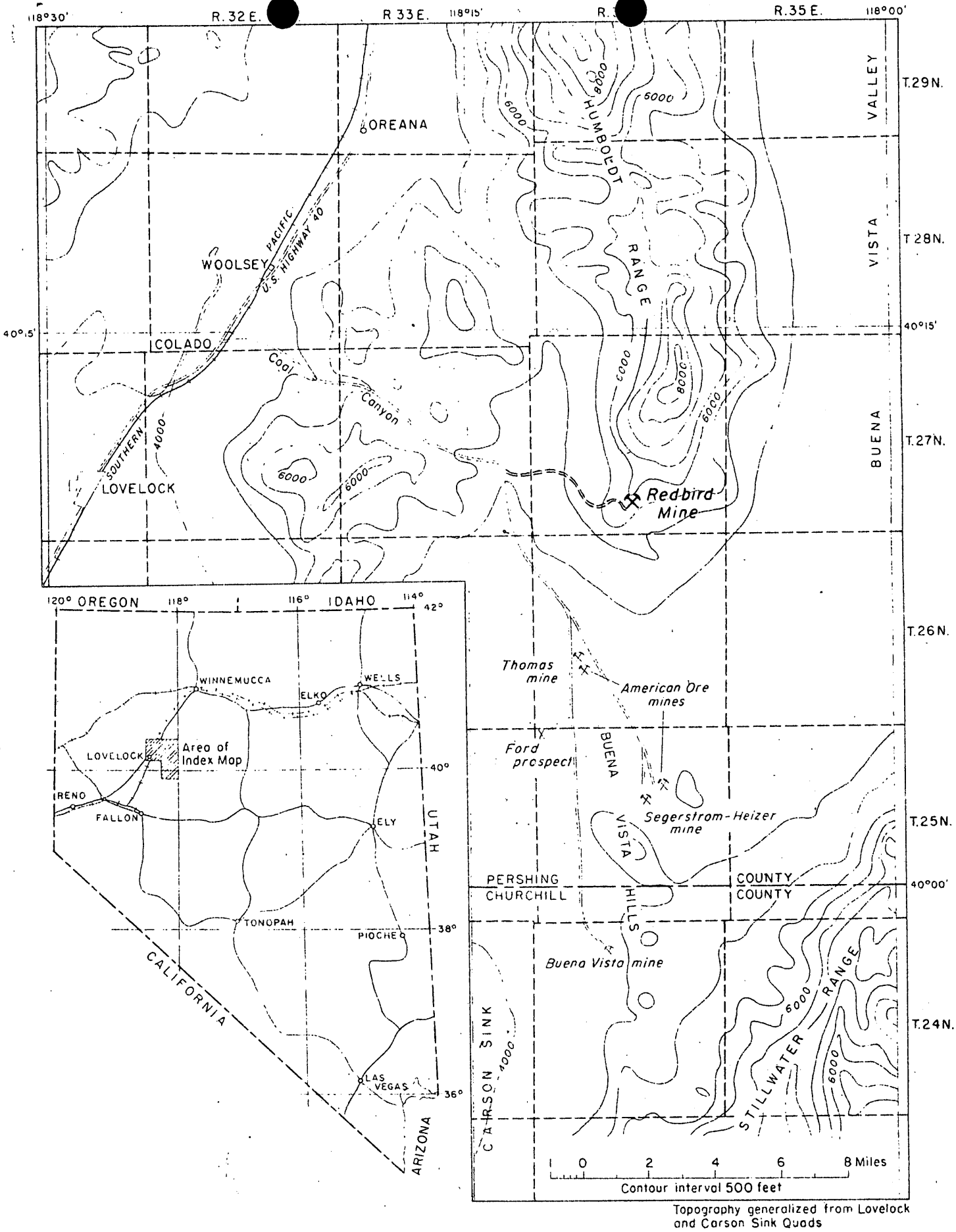
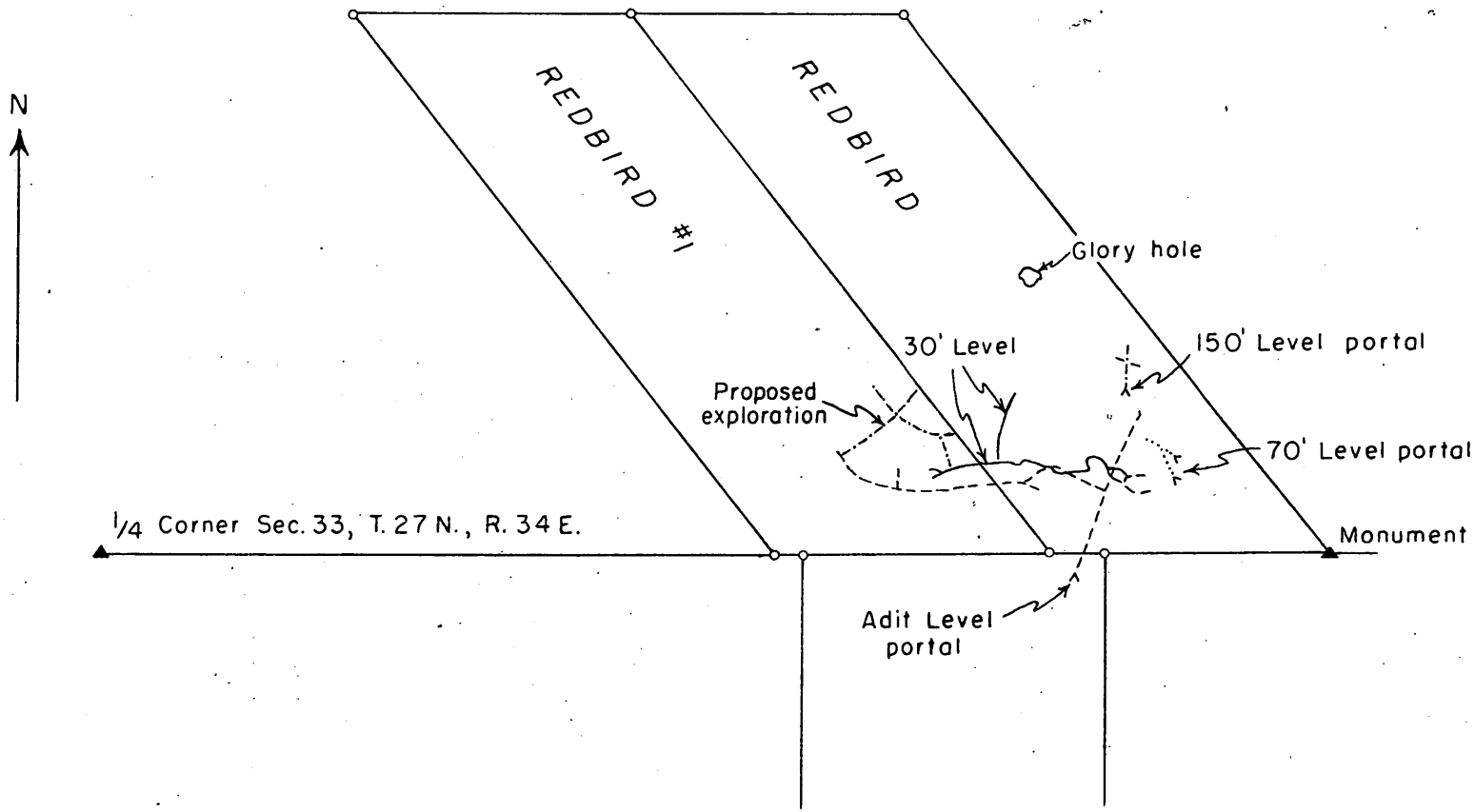


Figure 1 - Index Map, Redbird Quicksilver Mine, Pershing County, Nevada

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

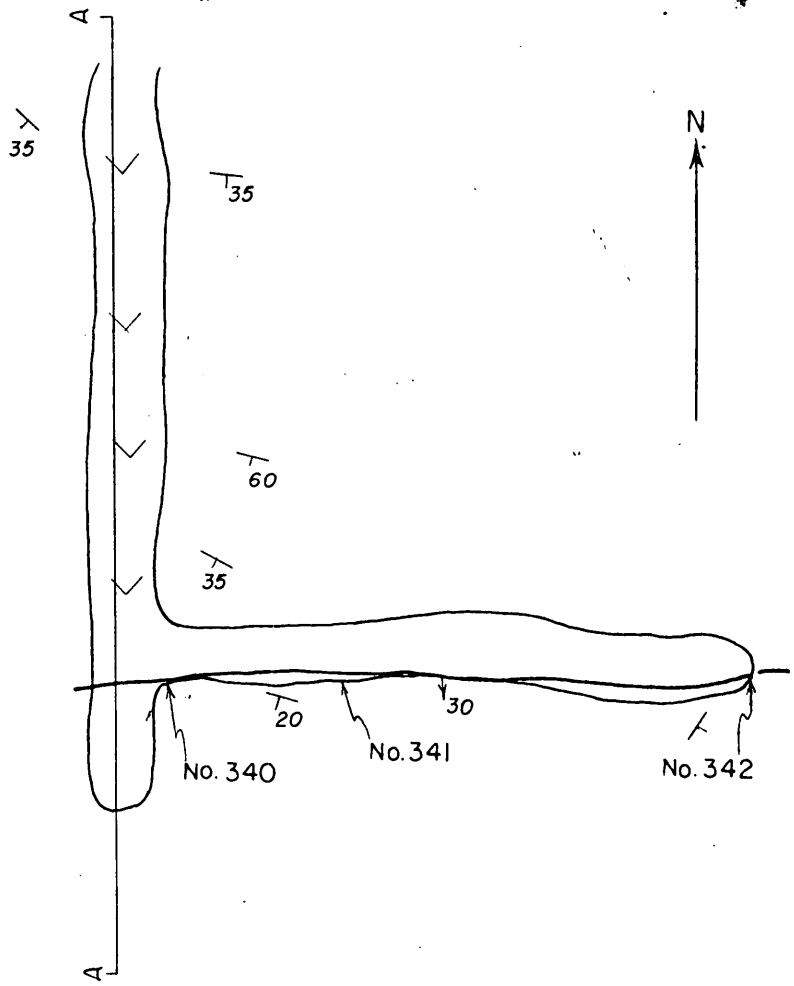
DMEA 3647
(MERCURY)
Idm E-838

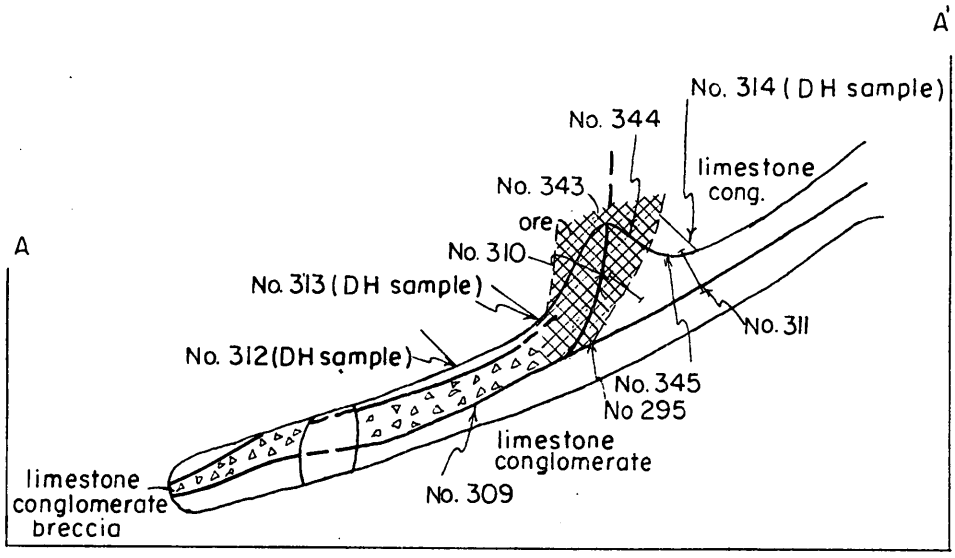


CLAIM MAP, REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

400 0 400 800 Feet

Figure 2



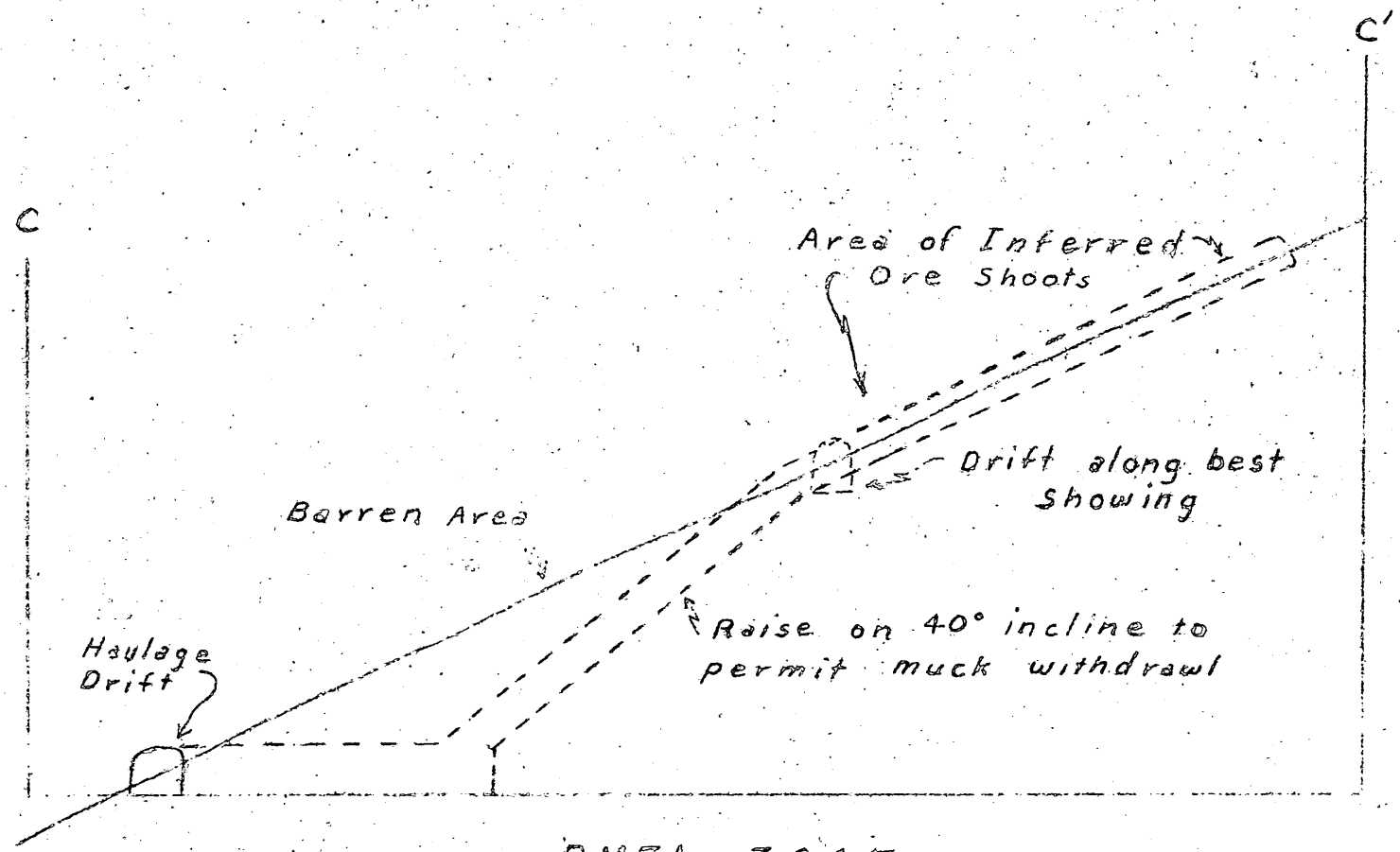


DMEA WINZE AT REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

0 20 40 60 FEET

Figure 5

Fig. 6 see plot.



DMEA - 3647

Section through Proposed Work

Redbird Quicksilver Mine, Pershing Co. Nevada.

1 inch = 30 feet

Fig 6

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
JUL 26 1956

1605 Evans Avenue
Reno, Nevada

July 24, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Reference is to your letter of July 10, 1956 inquiring as to the Field Teams appraisal of additional work requested by the Operator.

The Field Team's appraisal has been held in abeyance until an inspection is made of concluded work under the present contract. It is doubtful however from results of work thus far if continued exploration in depth will be suggested. A certificate of discovery will be recommended.

S. Ricker

DOCKET
SURNAME

400 McMahon
Chapman
Selfridge
Johnson
Muttendorf

JUL 1 9 1956

Mr. Spangler Richmr, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Ida-2836

Dear Mr. Richmr:

Reference is made to your memorandum of May 21, 1956, transmitting three copies of MF-103 forms and a covering letter from the Operator requesting an amendment to the subject contract to sink the winze an additional 200 feet and drift 100 feet from the bottom or from the best location along the winze. Your memorandum stated that you would make your recommendations upon reappraisal of the property the first part of June.

The June 19, 1956 Interim Report prepared by R. G. Reeves, Geological Survey, and Henry W. Jones, Bureau of Mines, and your transmittal memorandum of the same date do not mention the Operator's application for an amendment or the additional work involved. We would appreciate receiving the Field Team's appraisal of the proposed additional work.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (246)

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines (246)

Thor H. Kiilsgaard
Member, Geological Survey (246)

ADMcMAHON/foc
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. II
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

RCJ.

R 2n Ea

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
MAY 23 1956

1605 Evans Avenue
Reno, Nevada

May 21, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Attached are three copies of MF-103 forms and covering letter from the Operator requesting an amendment to the subject contract.

One copy has been retained for our files and we will make our recommendations upon reappraisal of the property the first part of June.

S. Ricker

Attach.

REFER TO	NOTED	DATE
Ricker	SR	5/21/56
ANSWERED		

Lovelock, Nevada
May 18, 1956

RECEIVED
MAY 23 1956

Mr. S. Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue,
Reno, Nevada

Re: Docket No.DMEA-3647(Mercury)
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm.E-838

Dear Mr. Ricker:

Upon completion of the 75 foot winze we find that extended work is required to accomplish the original purpose of the contract. We are, therefore, applying for an extension to sink an additional 100 feet on the winze and for an additional 100 feet of drifting at the bottom of the proposed winze or at the best location along the winze.

In sinking the present 75 foot winze we cut in and out of low grade-furnace grade- ore. The sinking was in more or less of a slip but at the depth of sixty feet it formed into a hard hanging wall and footwall and shows a strong and persistent vein structure which we feel warrants the additional exploration.

Yours very truly,

G.A.Coppin

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 42-R1035.2.

RECEIVED
MAY 23 1956

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: C. A. Coppin
Lovelock, Nevada

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Description same as in original application Docket No. DMEA 3647 (Mercury)

(*b*) State any mine name by which the property is known. Redbird Mine - Redbird Quicksilver Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Already on file with original application Docket No. DMEA 3647 (Mercury)

(*e*) If you own the land, describe any liens or encumbrances on it .....

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See original application

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

16—66551-1

4 a-e - See original application.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Mercury

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. Continuation of present winze 100 feet plus 100 feet drifting at bottom or at best location along winze.

(*c*) The work will start within 10 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See original application.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project: app. 9200.00

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). none - all on footage basis

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☑ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 18, 1956

(Applicant)

By Operator

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
MAY 17 1956

1605 Evans Avenue
Reno, Nevada

May 15, 1956

Mr. C. A. Coppin
Upper Valley
Lovelock, Nevada

Re: Docket DMEA-3647 - Mercury
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Coppin:

This will advise you that the Government approves Mr. Jones and Mr. Reeves recommendation that the drift allotted under referenced contract be started at a point 60 feet below the collar of the shaft in which you are now working.

Enclosed is a set of MF-103, Application for Aid forms as per your verbal request to Mr. Jones.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Encl.

SRicker:gh
cc: Opr. Com., DMEA, Wash., D.C.
Finance Off., Reg. II
Geo. Mavor
R. M. Smith
R. G. Reeves
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
FEB 28 1956

1605 Evans Avenue
Reno, Nevada

February 27, 1956

Mr. C. A. Coppin
Lovelock, Nevada

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Coppin:

Enclosed are the original and five copies of a proposed amendment No. 1 to the above referenced project signed by the Administrator for the Government.

If the terms and conditions of this proposed amendment are satisfactory to you, the original and all five copies should be signed by you. The copy marked "Operator's Copy" should be retained by you, and the original and the other four copies should be returned to this office.

If any part of the proposed amendment does not meet with your approval, the original and all copies should be returned to this office with your suggested changes.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Encl.
SRicker:gh
cc: R. M. Smith
Opr. Com., DMEA, Wash., D.C.
Finance Off., Reg. II
Geo. Mavor
File

DOCKET
SURNAME
McMahon
Martin
Talbot
Williams
Fleischmann

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 21 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-2838

Dear Mr. Ricker:

Enclosed are the original and five copies of a proposed Amendment No. 1 to the above-referenced project, signed by the Administrator for the Government. Two extra copies are enclosed for use of the Field Team.

If the terms and conditions of this proposed amendment are satisfactory to you and the Operator, all six copies should be signed by the Operator and the usual distribution made.

If any part of the proposed amendment does not have your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes for consideration.

Sincerely yours,

W. S. Martin

Enclosure

ACTING Chairman, Operating Committee (WSB)

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines (WSB)

W. P. Williams
Member, Geological Survey (WSB)

ADMcMahon/foc 2-16-56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

R.C.S.

February 3, 1956

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Iron and Ferro-Alloys Division, DMEA

Subject: Preparation of Amendment No. 1
Docket No. DMEA 3647
C. A. Coppin
Redbrid Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-8838

Transmitted herewith is a rough draft of an Amendment No. 1 to the above-captioned contract for your use in preparing the final draft.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

ADMcMahon/foc
2-3-56
cc to: Docket
Code 400

EXPLORATION PROJECT CONTRACT
C. A. Coppin
Docket No. DMEA 3647

AMENDMENT NO. 1

It is agreed this _____ day of _____ 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration and C. A. Coppin, that Exploration Contract No. Idm-E838 (Docket No. DMEA 3647) dated July 5, 1955, is amended as follows:

A. On page 1 of Exhibit "A" of the contract, under Description of the Work, change Stage II to:

STAGE II

1. From the face of the adit level west drift driven under Stage I, drift an additional 33 feet in a westerly direction. The size of the drift shall not be less than 5 feet by 7 feet in the clear.

2. Raise not in excess of a total of 100 feet at locations in the drift driven under this contract where mineralization is favorable. The location and footages alloted to raises shall have prior written approval of the Government. The size of the raises shall be not less than 4 feet by 7 feet in the clear.

3. At the mineralized zone exposed in a short drift, 397 feet from the portal and 140 feet east of the DMEA point of beginning, sink an inclined winze not in excess of a total depth of 75 feet.

4. From the bottom of the winze or at the best location along the winze drift east, west or in both directions not to exceed a total of 58 feet. The size of the drift shall not be less than 5 feet by 7 feet in the clear.

B. On page 2 of Exhibit "A" of the contract change estimated costs of project to:

Estimated Cost of Project

Fixed Unit Costs

(The unit costs include all costs whatsoever necessary to complete the work)

STAGE I		
250 feet of drifting @ $29.00/ft.		$ 7,250.00
STAGE II		
33 feet of drifting @ $29.00/ft. (adit level)	$ 957.00	
100 feet of raising @ $25.00/ft.	2,500.00	
75 feet of sinking winze @ $60.00 per foot	4,500.00	
58 feet of sub-level drifting @ $32.00/ft.	1,856.00	
39 samples analyzed for mercury @ $3.00 each sample	117.00	$ 9,930.00
ESTIMATED TOTAL FIXED UNIT COSTS		$17,180.00
GOVERNMENT PARTICIPATION @ 75%		$12,885.00

C. The time for completion of the work, as specified in Article 3 of the contract is hereby extended from January 1, 1956 to July 1, 1956.

D. The period for royalty payments and lien to secure the payment thereof, provided for in Article 7(b) (2) of the contract, is extended to eleven (11) years.

This Amendment shall not be construed to increase the estimated cost of the project nor the aggregate total amount which the Government may be required to contribute.

Executed in sextuplicate the day and year first above written.

THE UNITED STATE OF AMERICA

By_____
Administrator, Defense Minerals
Exploration Administration

C. A. COPPIN

By_____

Justification for Amendment No. 1
Contract No. Idm-P838, Docket No. DMEA 3647
C. A. Coppin - Redbird Quicksilver Mine
Pershing County, Nevada

1. The last 40 feet of the adit level west drift encountered no cinnabar and both the operator and field examiners were of the opinion that the possibilities of discovering ore did not justify continuation of the drift.

2. Two samples taken by the field examiners of a fault exposed in a short drift on the adit level, 397 feet from the portal and 140 feet east of the starting points of DMEA Stage I drifting, showed 8 inches of cinnabar bearing calcite assaying 37.0 lbs. Hg/ton and 4.0 feet of calcite and limestone assaying 1.3 lbs. Hg/ton. This area being underneath one of the larger stopes of the mine, the field examiners were of the opinion that the downward extent of this mineralized zone should be investigated. Accordingly, they recommended the sinking of a 75 feet inclined winze and 60 feet of drifting therefrom.

3. Provisions for the costs of 60 mercury analyses for Stage I and Stage II sampling were made in Exhibit "A" of the contract. The MF-104 forms submitted by the Operator, covering all of Stage I work (250 feet of drifting) and 33 feet of drifting and 40 feet of raising in Stage II, did not include any assaying costs. Therefore, in drafting the attached Amendment the assaying allowance for Stage I work was deleted. The allowance for mercury determinations may be needed during the revised Stage II progress and is provided for in the Amendment.

4. The increase from $29.00/ft. to $32.00/ft. for sub-level drifting from the winze is justified because of necessary double or tirple handling of material, supplies, and rock or ore.

RMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
JAN 25 1956

1605 Evans Avenue
Reno, Nevada

January 23, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 (Mercury)
Redbird Quicksilver
Pershing County, Nevada
Contract No. Idm-E838

Reference is made to Interim Report dated January 20, 1956 by H. W. Jones and R. G. Reeves on subject contract in which an amendment is suggested allotting available funds amounting to $6,240.00 to sinking 75 feet and drifting 60 feet.

Roscoe Smith and I believe the proposed work is justified and recommend that an amendment be drawn up along the lines set forth in the report.

S. Ricker

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
DEC - 7 1955

1605 Evans Avenue
Reno, Nevada

December 5, 1955

Mr. C. A. Coppin
Lovelock
Nevada

Re: Docket No. DMEA-3647
Redbird Quicksilver
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Coppin:

You are hereby authorized to proceed with Stage II of the above referenced contract. You may continue the drift along the mineralized fault until advised otherwise by our engineers who will make their regular inspection trips. The maximum allowed is however 250 additional feet. A raise may be driven at the 96-foot point from the start of the DMEA drift and continued until advised other wise by our engineers but cannot exceed the 100 feet allowed under Stage II. Size of drifts and raises shall be as specified in the contract.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

SRicker:gh
cc: DMEA, Wash., D.C.
Finance Off., Reg. II
Geo. Mavor, Auditor, DMEA
H. C. Miller
R. M. Smith
File

work authorization

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

AUG 1 1955

Memorandum

To: The Administrator, DMEA
Attention: W. S. Martin

From: Acting Assistant Solicitor, Defense Minerals

Subject: Royalty - Liability of production from old dumps (C. A. Coppin, DMEA-3647, Contract Idm-E338)

I do not approve a proposed memorandum from the Operating Committee to the Executive Officer, Region III, which advises the Executive Officer that production from old dumps standing on the property when the contract was entered into, is subject to the Government's royalty. This proposed memo was submitted to me on a routing slip dated July 29, received here August 1.

I have several times pointed out that ore mined prior to the date of the contract and standing in dumps on the property described in the contract is not subject to the Government's royalty. See my memorandum dated July 2, 1954, to the Administrator, through Mr. W. S. Martin, re Docket No. DMEA-2964, Schroder Mining Company, Contract Idm-E578; and the Operating Committee's letter dated May 9, 1955, to the Executive Officer, Region III, re Docket No. DMEA-270X, Montana Mining Co., Contract Idm-E261.

J. L. Hofflund
Acting Assistant Solicitor,
Defense Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Not used

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Red Bird Quicksilver mine
Pershing County, Nevada
Contract No. Idm-E838

Dear Mr. Ricker:

In reviewing the interim report dated July 21, 1955, on the above-referenced exploration contract, it was noted that a small production is being made from the treatment of old dumps.

If these dumps are located on the two claims covered by the referenced contract, the operator should be advised that this production is subject to the Government's royalty.

Sincerely yours,

Chairman, Operating Committee

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
JUL 16 1955

1605 Evans Avenue
Reno, Nevada

July 13, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 - Mercury
Redbird Quicksilver Mine
Pershing County, Nevada
Contract No. Idm-E838

Reference is made to your letter of July 5, 1955 in which was transmitted the above subject contract.

The contract has been executed by the applicant and attached are the original and two copies. The remaining copies have been distributed in the usual manner.

S. Ricker

Attach.

400

DOCKET
Surname:
Rutledge
Martin
Chandler
Selfridge
Johnson
Rutledge

JUL - 5 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Red Bird Quicksilver mine
Pershing County, Nevada

Dear Mr. Ricker:

Enclosed are the original and five copies of a proposed contract for an exploration project at the above-referenced property, signed by the Administrator for the Government, together with Annex I (1 page), Exhibit "A" (2 pages), Owner's Consent to Lien, and two maps.

If the terms and conditions of this proposed contract are satisfactory to you and the operator, subject to the operator's submitting evidence of his right to use the portal of the adit, which is on another claim, and substantiation of the recording data in Annex I, all six copies should be signed and the usual distribution made.

If any part of this proposed contract does not have either your approval or that of the operator and cannot be amended within your delegated authority, the original and all copies of the proposed contract are to be returned to this office, together with the proposed changes for consideration.

Under Article 3, the starting date of the proposed contract has been left blank and is to be filled in when executed by the operator.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

/s/ Robert W. Geehan (GCS)

Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)

Member, Geological Survey

cc: Docket
FT, Region 2
Code 400
Oper. Committee
H. M. Meyer, USBM
Thor Kiilsgaard, USGS
Adm. Reading File

FARutledge/ls 6/29/55

R.C.S.

400

DOCKET
Surname:
Rutledge
Martin
Kilsgaard
Selfridge
Geehan

JUL - 5 1955

Mr. C. A. Coppin
Lovelock, Nevada

Re: Docket No. DMEA 3647 - Mercury
Red Bird Quicksilver mine
Pershing County, Nevada

Dear Mr. Coppin:

Reference is made to your application for exploration assistance at the Red Bird mine under the subject docket.

We are pleased to advise you that as of this date a proposed contract is being forwarded to the Executive Officer, DMEA Field Team, Region II, for transmission to you.

As requested, we are returning the following:

1. Lease between Llewellyn A. Young and C. A. Coppin, January 7, 1955.

2. Lease between Myron White, Douglas George, Kenneth George, Alta Bigham, Reed Van Winkle, and Llewellyn A. Young and C. A. Coppin, June 11, 1955.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures

cc: Docket
Adm. Read. File
Oper. Committee
Code 400
H. M. Meyer, USBM
Thor Kiilsgaard, USGS
FT, Reg. 2

FARutledge/ls
6/28/55

R.C.S.

400

DOCKET
Surname:
Rutledge
Martin
Keehon
Kiilsgaard
Selfridge

JUL - 5 1955

Hon. George W. Malone
United States Senate
Washington 25, D. C.

My dear Senator Malone:

Reference is made to your letter of February 2, 1955, requesting information on the status of an application for exploration assistance at the Red Bird mine, Pershing County, Nevada, filed by C. A. Coppin, Lovelock, Nevada, our docket No. DMEA 3647, and to our reply dated February 7.

We are now pleased to advise you that as of this date a proposed contract is being forwarded to the Executive Officer, DMEA Field Team, Region II, for transmission to Mr. Coppin.

Sincerely yours,

C. O. Mittendorf

Administrator

cc: Docket
FT, Reg. 2
Code 400
Adm. Read. File
Oper. Comm.
H. M. Meyer, USBM
Thor Kiilsgaard, USGS

FARutledge/ls
6/29/55

R.C.S.

DOCKET
Surname:
Rutledge
Martin
Guhon
Kilsgaard
Selfridge

400

JUL - 5 1955

Hon. Clifton Young
House of Representatives
Washington 25, D. C.

My dear Mr. Young:

Reference is made to your letter of February 1, 1955, requesting information on the status of an application for exploration assistance at the Red Bird mine, Pershing County, Nevada, filed by C. A. Coppin, Lovelock, Nevada, our docket No. DMEA 2647, and to our reply dated February 3.

We are now pleased to advise you that as of this date a proposed contract is being forwarded to the Executive Officer, DMEA Field Team, Region II, for transmission to Mr. Coppin.

Sincerely yours,
C. O. Mittendorf

Administrator

cc: Docket
FT, Reg. 2
Code 400
Adm. Read. File
Oper. Comm.
Thor Kiilsgaard, USGS
H. M. Meyer, USBM

FARutledge/ls 6/29/55

R.C.H.

DOCKET
Surname:

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OFFICE OF THE SOLICITOR

June 27, 1955

MEMORANDUM

To: The Administrator, DMEA
Attention: W. S. Martin

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA 3647 (Mercury), C. A. Coppin, Pershing County, Nevada

Pursuant to Mr. Martin's memorandum dated June 21, 1955, we have prepared the attached contract, in satisfactory legal form, subject to the operator's submitting evidence of his right to use the portal of the adit, which is on another claim.

/S/ H. C. Rubin
For J. L. Hofflund
Acting Assistant Solicitor,
Defense Minerals

Attachment

cc: DMEA Docket
Sol. Docket
W. S. Martin
J. L. Hofflund
H. C. Rubin
Chron. File

HCRubin/ls
6/24/55

400 DOCKET
SURNAME
Rutledge
Martin

June 21, 1955

MEMORANDUM

To: Acting Assistant Solicitor, Defense Minerals

From: Iron and Ferro-Alloys Division, DMEA

Subject: Preparation of proposed contract
Docket No. DMEA 3647 - Mercury
C. A. Coppin
Red Bird mine
Pershing County, Nevada

Transmitted herewith is a rough draft of a proposed contract for your use in preparing the final draft.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Enclosure

Docket
Code 400

EXPLORATION PROJECT CONTRACT
C. A. COPPIN
DOCKET NO. DMEA 3647

ANNEX I

The land referred to in Article 2 of the Contract consists of two unpatented lode mining claims located in secs. 28 and 33, T. 27 N., R. 34 E., MDB&M, in the Antelope Springs district of southcentral Pershing County, Nevada. The two claims are recorded in the Pershing County Courthouse at Lovelock, Nevada in the books of mining locations as set forth below:

Red Bird	Book 2	page 588
Red Bird No. 2	Book 3	page 90

The Red Bird mine is approximately 20 miles southeast of Lovelock, Nevada. The location of the Red Bird claims is indicated on Figure 1, Claim Map, Redbird Quicksilver Mine, Pershing County, Nevada attached hereto and made a part hereof.

EXPLORATION PROJECT CONTRACT
C. A. Coppin
Docket No. DMEA 3647

EXHIBIT "A"

Description of the Work

The exploration work on this project is indicated in part on the map attached hereto and made a part hereof entitled "Figure 2 - Geologic Map and Block Diagram of the Red Bird Mine, Pershing County, Nevada." The objective of this project is the exploration of the Red Bird mine area for mercury and the work shall be divided into two stages.

Representative samples shall be taken of all mineralized ground encountered. Each sample shall be divided into at least two parts, one of which is to be furnished to the Government.

Stage I

As indicated on the above-referenced Figure 2, extend the west drift on the adit level 250 feet in a westerly direction. Size of the drift is to be not less than 5' x 7' in the clear and timbered where necessary.

Stage II

Stage II is to be undertaken only after the completion of Stage I and with the written approval of the Government. This approval is only to be granted if the results of the work under Stage I warrant further exploration of the deposit.

1. From the face of the drift driven under Stage I, drift an additional 250 feet in a westerly direction. Size of the drift is to be not less than 5' x 7' in the clear and timbered where necessary.

2. Raise not in excess of a total of 100 feet at locations in the drift driven under this contract where the mineralization is favorable.

Location and footage alloted to each raise so driven shall have prior written approval of the Government. Size of the raises is to be not less than 4' x 7' in the clear and timbered where necessary.

Estimated Costs of Project

AGREED UNIT COSTS

STAGE I

250 feet of drifting @ $29.00/ft.	$7,250.00	
25 samples analyzed for mercury @ $3.00 ea.	75.00	$7,325.00

STAGE II

250 feet of drifting @ $29.00/ft.	$7,250.00	
100 feet of raising @ $25.00/ft.	2,500.00	
35 samples analyzed for mercury @ $3.00 ea.	105.00	$9,855.00

TOTAL AGREED COSTS	$17,180.00
GOVERNMENT PARTICIPATION @ 75%	$12,885.00

MF-200A
(Revised June 1954)

Docket No. DMEA 3647

Commodity Mercury

Contract No. Idm-E

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this ..... day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] C. A. Coppin

whose mailing address is Lovelock, Nevada

hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and .....

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Nevada, County of Pershing, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] entire interest in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] un recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: .....

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: Owner's Consent to Lien

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of .....mercury..... The work to be performed is described in Exhibit "A." The Operator on or before ..... shall commence the work, and on or before .....January 1, 1956..... (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $.....17,180.00..... The Government will contribute .....75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $.....12,885.00.....: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess [illegible]e (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

.....
(Operator)

By .....

By .....

.....

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Docket

RECEIVED
JUN 15 1955

1605 Evans Avenue
Reno, Nevada

June 13, 1955

Copy retained 400

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C,

WSM

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

Attached is one copy of the lease on the above subject property and four copies of Owner's Consent to Lien.

For some unknown reason, only four copies of Owner's Consent to Lien were sent, but Mr. C. A. Coppin states in covering letter that the additional requested copies are being prepared but there will be some delay as they must be forwarded for some signatures to California and Utah. In the meantime, I thought work on the contract could be expedited if I sent you the four copies already executed.

S. Ricker

Encls.

DOCKET
SURNAME
400 Rutledge
martin
Mitkendorf

JUN - 3 1955

Mr. C. A. Coppin
Lovelock, Nevada

Re: Docket No. DMEA 3647 - Mercury
Redbird Quicksilver mine
Pershing County, Nevada

Dear Mr. Coppin:

Reference is made to your application for exploration assistance at the Redbird Quicksilver mine, our docket No. DMEA 3647.

In order that we may process your application further, the enclosed consent to lien forms should be executed by all of the owners of the property and six copies returned to this Administration. According to information available here, the owners are: Llewellyn A. Young, Myron White, Ried Van Winkle, Kenneth R. George, and Alta and D. C. George, all heirs to the Young and Rowland estates.

In addition we should receive a copy of the document by which you control, or have been granted right of entry on, the claim lying south of the Redbird and Redbird #1 claims.

Sincerely yours,

SIGNED
W. S. Martin, Chief
Iron and Ferro-Alloys Division

Enclosure

FARutledge:fec
6-3-55
cc to: Docket
Code 400
Adm. Reading File

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
JUN - 1 1955

May 31, 1955

Memorandum

To: W. S. Martin, DMEA

Copy retained 400

WSM

From: Helena M. Meyer

Subject: DMEA Docket 3647, C. A. Coppin, Red Bird Quicksilver Mine, Pershing County, Nev. (mercury) - Field Team Report. Revised proposed cost, $16,900.

I have read the subject field team report and the recommended revised program for exploration, and recommend that the revised program be approved.

The revised program consists of two stages, i.e. drifting northwesterly along the fissure contact for not to exceed 250 feet and, if that work yields favorable results, of continuing the northwest drift for an additional 250 feet. The second stage provides also for a maximum of 100 feet of raising on the most favorable showing.

The second stage, if conditions warrant, would be undertaken on the written approval of the Government. Following such approval two raises could be extended on favorable showings for a total of not to exceed 100 feet upon verbal approval of the DMEA field representative.

Helena M. Meyer

Helena M. Meyer

Copy to: Division of Minerals
Branch of Base Metals
H. M. Meyer
F i l e s
Thor Kiilsgaard, USGS

10 In Ea

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.

Defense Minerals Administration
RECEIVED

1605 Evans Avenue
Reno, Nevada

May 26, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 - Mercury
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

I have discussed with Roscoe Smith the question of excluded ground brought up in your letter of May 18, 1955 relative to possible DMEA contract on above subject property. We believe your view point is well taken and recommend that in case of a contract that production from all ground included in the mining claims involved be subject to royalty payments to the Government.

We are pleased that you brought the question to our attention.

S. Ricker

Docket

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED

May 25, 1955

Copy retained 400

Memorandum

WSM

To: W. S. Martin, Chief, Iron & Ferro Alloys Division, Defense Minerals Exploration Administration

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report, DMEA Docket 3647, Red Bird Quicksilver mine, Pershing County, California

The Field Team has recommended approval of a contract on the cited property, the work to be in two stages. The first stage would consist of extending the main haulage-level adit to the west for a distance of 250 feet. If this work is successful an additional 250 feet of westward drifting is recommended plus 100 feet of raising.

The Field Team has presented a very good report and map in support of their recommendations. They note that previous production is about 2,270 flasks of mercury, most of it coming from three ore bodies. These ore bodies have formed in limestone conglomerate capped by shale, which has been folded into a N. 70° W. striking syncline. The ore, in places, appears to have been localized along the syncline by a series of faults paralleling the syncline. Two of these parallel faults controlled the location of the Young-Macabee and the West stope ore bodies, and it is to further explore the western continuation of these same faults that Stage I drifting has been proposed.

The proposed work appears to be a logical way of exploring for the western extension of the Red Bird ore bodies. However, it is suggested that the following items concerning the project be further checked before a contract is granted the applicant.

The property consists of two unpatented claims, the Red Bird and Red Bird No. 1; however, the Field Team claim map and also the applicant's map shows the portal and about the first 100 feet of the main haulage adit to be on a claim south of the Red Bird. As the proposed drifting is on this haulage level, it would be prudent to check the applicant's right of entry on this southern claim before entering into a project involving the use of that ground.

This can be done when proposed contract sent to FT

It would also be advisable to check the applicant's 5 year lease, dated January 7, 1955, as that lease might need to be renewed before the Government's 10-year right to royalty payment had expired. There is also the matter of obtaining a Consent to Lien Agreement, an instrument that might be difficult to acquire owing to the divided ownership.

Another matter to be considered concerns the land proposed to be withdrawn from royalty payment. As this mine is quite small and has but few ore reserves it would seem that the property, as a unit, would benefit from the proposed work and that all of the mine should be subject to royalty payment.

I recommend approval of a contract along the lines proposed by the Field Team but with consideration of the above-discussed items.

Thor H. Kiilsgaard

Thor H. Kiilsgaard

DOCKET
SURNAME

400 Rutledge
Martinez
Selfridge
Johnson
Wetherill

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

MAY 1 8 1955

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 3647 - Mercury
C. A. Coppin
Redbird Quicksilver mine
Pershing County, Nevada

Dear Mr. Ricker:

This will acknowledge the receipt of the Field Team's report dated May 3, 1955, recommending an exploration project at the above referenced property.

Before forwarding the requested "Owner's Consent to Lien" to Washington, please insure that it is executed by all of the owners of the referenced property.

In addition, we question the exclusion of any of the property from that subject to the Government's lien in the event a contract is executed. Total reported production since January 1955 is five flasks of mercury; present ore reserves as estimated by the field team follow:

Measured	Approximately 50 tons @ 10-20 lbs./ton (in old pillars)
Indicated	Approximately 80 tons @ 10-20 lbs./ton
Inferred	Few hundred tons in area to be explored.

The applicant stated in his application that considerable low-grade furnace ore averaging around 12 pounds is available but that it is not suitable for retorting. One of the reasons given for wishing to explore was to determine if sufficient ore was present to warrant the installation of a Gould furnace to treat the low-grade ore. Thus a successful exploration program would benefit the mine as a whole. Your comments on this matter will be appreciated.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (SLB)

APPROVED:

J. H. Hedges
Member, Bureau of Mines (SLB)

Thor H. Kiilsgaard
Member, Geological Survey (SLB)

FARutledge:foc May 16, 1955
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. II
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

RCR

R in C a
Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Defense Minerals Administration
RECEIVED
MAY 13 1955

1605 Evans Avenue
Reno, Nevada

May 10, 1955

Memorandum

WSM

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3647 - Mercury
C. A. Coppin
Red Bird Quicksilver Mine
Pershing County, Nevada

Reference is made to you letter of February 10, 1955 in which you referred above subject application to us for field examination and recommendation.

Attached are four copies of report DMEA-3647 (Mercury), C. A. Coppin, Red Bird Quicksilver Mine, Pershing County, Nevada by Earl H. Pampeyan, geologist, U. S. Geological Survey and H. W. Jones, mining engineer, U. S. Bureau of Mines, dated May 3, 1955.

The report recommends exploration by means of 500 feet of drifting and 100 feet of raising. Total cost estimate is $16,900 of which the Government participation would be $12,675.00.

Roscoe Smith and I believe the proposed exploration has merit and recommend that a DMEA contract be granted.

We have not yet received our requested "Owner's Consent to Lien" from the applicant.

Reviewed by
DMEA OPERATING COMMITTEE
5-16-55

S. Ricker

Attach.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-3647 (Mercury)
C. A. Coppin
Red Bird Quicksilver Mine, Pershing County, Nevada

by

Henry W. Jones
Mining Engineer
U. S. Bureau of Mines

Earl H. Pampeyan
Geologist
U. S. Geological Survey

May 3, 1955

Reviewed by
DMEA OPERATING COMMITTEE
5-16-55
(Date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Mr. C. A. Coppin, Lovelock, Nevada, has requested Government aid in an exploration program consisting of 500 feet of drifting and 200 feet of raising and sinking along a cinnabar-bearing fault zone at the Red Bird Quicksilver mine, Pershing County, Nevada. An examination was made on March 8, 9 and 24 by H. W. Jones and E. H. Pampeyan accompanied by Mr. Coppin. A revised two-stage program was discussed with and agreed to by the applicant and the DMEA Field Team representatives. In the revised program 250 feet of drifting would be completed along the mineralized zone in Stage I; if additional work is then justified, 100 feet of raising would be done on the most favorable showings with an additional 250 feet of drifting on the structure. Total cost of the revised program is estimated at $16,900.00, the Government to share in 75% of the cost, or $12,675.00.

The possibility of finding additional lenses of high grade ore along the west-striking mineralized zone is good because the structural and lithologic controls are the same as those of other ore bodies in the mine. It is recommended, therefore, that the revised program of underground exploration work at the Red Bird mine be approved.

LOCATION, ACCESSIBILITY, LOCAL RESOURCES

The Red Bird mine is in secs. 28 and 33, T. 27 N., R. 34 E., MDB&M, in the Antelope Springs district (also known as the Relief mining district) in the south central part of Pershing County, Nevada.

The mine is on the south slope of Buffalo Mountain at an elevation of about 5,500 feet, approximately ½ mile east of the Nevada (Juniper) Quicksilver mine.

It is reached by travelling northeasterly from Lovelock, Nevada along U. S. Highway 40 a distance of 5.8 miles. Turn southeast through the iron ore loading ramps and follow a well maintained gravel road over a small pass into the next valley a distance of 10.4 miles, to a windmill. At this point leave the main road and continue straight along an ungraded road up a mountain wash for 3.2 miles. Follow the left fork of the road past the Nevada Quicksilver mine sign and continue up a progressively steep road for an additional 1.4 miles to the mine.

The road leading to the Antelope Springs area is gravelled and accessible at all times of the year, although infrequent winter and spring storms make the last 1½ miles of the mine road nearly impassable for short periods.

Mining personnel can usually be obtained in Lovelock due to the many and varied mining activities centered in the area. Slack season in the nearby ranches finds unskilled laborers available. There is no housing at the mine for a crew of men. Sufficient living quarters, however, could be obtained in and near Lovelock. Transmitted electric power is available at the Nevada Quicksilver mine and plant, and could easily be extended to the Red Bird mine.

Materials and equipment can also usually be supplied from Lovelock. If not available, they can be purchased at Reno, the nearest large town, about 93 miles distant.

Water for mine usage is hauled from the windmill and water tank in the valley floor 4.8 miles distant.

COMPETENCE OF APPLICANT

The applicant has stated that he has had considerable mining experience since working in the mines at Butte, Montana in 1915. He was also mine foreman in the Red Bird mine during the period that it was held under lease by Harold's Club, 1941-43. The applicant is not well versed in engineering principles; however, he is capable of performing all phases or ordinary mining operations.

The applicant intends to furnish the necessary mining equipment to provide his share of the costs. Expenses for mine operations are to be shared equally between himself and his working partner, Gabe Harrison.

APPLICANT'S PROPERTY RIGHTS

The mine property consists of two unpatented lode claims: the Red Bird and Red Bird #1 filed in the Pershing County Courthouse at Lovelock, Nev. and originally recorded in Book 3, page 90, January 5, 1924. The property is owned by the S. A. Young and P. Rowland estates with a five year lease dated January 7, 1955 signed by L. A. Young to the present applicant; the latest assessment work on the property was recorded in Book 7, p. 430 under the combined names of Llewellyn A. Young, Myron White, Ried Van Winkle, Kenneth R. George, and Alta and D. C. George, all heirs to the Young and Rowland estates. L. A. Young owns one half of the property rights, the other half equally divided among the listed names.

DEVELOPMENT

Underground development consists of about 2,000 feet of adits, raises, and winzes, most of which are on the main haulage level and the adit level 70 feet above. An intermediate 30-foot adit was driven between the levels. Considerable stoping between the levels and near the surface has been completed. A surface ore body was mined through a short drift and a glory hole, about 150 feet above the haulage level.

A large ore bin, estimated 100-ton capacity, was built near the portal of the haulage level and joined by a long elevated track. Remnants of three small retorts are situated on the flat area below the ore bin, one of which has been patched up and is servicable. A tin shack that houses the air compressor is also used for a workshop and for storage. A small unoccupied house is just below the mine.

HISTORY AND PRODUCTION

The Red Bird claims were originally located by P. Rowland in 1907, however there is no record of production prior to 1914. Later S. R. Young was taken in as a partner. In 1914 it was known as the Dolbear mine and about 200 flasks of mercury was obtained from a bank of 12 pipe retorts. In 1915 the name was changed to the Antelope Springs mine and a small amount of mercury was recovered. A 1918 period of activity produced an additional unreported amount of mercury. The property was restaked in 1924 by the Young-Rowland group but remained idle until 1927 when it was leased to Newton and

Burney who operated it for several years as the Antelope Springs Mercury Mines, Inc., recovering about 200 flasks of mercury. The property was leased to the Harold's Club Mining Co. in 1941 and actively operated until December 1943, during which time 1,463 flasks of mercury were recovered. The ore was retorted in a 20-ton rotary furnace located at the old Nevada Quicksilver mine, about 1 mile southwest from the mine. Young and Macabee worked the mine from January 1944 to February 1946, during which time 250 flasks were mined. R. S. Blair and A. N. Bratton held the mine under lease and option in 1946 and produced an additional 231 flasks of mercury.

The mine was leased by C. A. Coppin, the applicant, on January 7, 1955. An old retort was partially rehabilitated and 5 flasks of mercury were produced from small pockets gouged from the vein material in the haulage and 30-foot levels since that time.

Total production from the mine is about 2,270 flasks of mercury.

GEOLOGY

The ore bodies of the Red Bird mine are in Upper Triassic limestone conglomerate which irregularly overlies limestone and is overlain by shale. The rocks have been folded into a syncline which strikes about N. 70° W. and plunges gently west (see fig. 2). Several normal faults, none of which have more than 20 feet of displacement, strike nearly parallel with the syncline and in places have localized the deposition of cinnabar.

ORE DEPOSITS

The only quicksilver mineral seen in the mine is cinnabar which occurs in both crystalline and earthy forms. The cinnabar was deposited along the west-striking faults in the limestone conglomerate under the capping of shale. Three separate ore bodies have been worked in the Red Bird mine (fig. 2): the old Northern ore body, the Harold's Club ore body, and the Young-Macabee ore body. These three deposits all contained ore which averaged better than an estimated 20 pounds of quicksilver per ton of rock.

The Harold's Club stope, the richest producer in the mine, is in limestone conglomerate and extends from below the 30-foot level (30 feet above the adit level) up to the shale capping, about 40 feet vertically. This stope is about 50 feet long and 20 feet wide and appears to be controlled by a northwest-striking, northeast-dipping fault. Earthy cinnabar together with limonite, cerusite, hemimorphite and bindheimite formed the ore in this stope. Bailey[1/] suggests

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1/ Bailey, E. H. and Phoenix, D. A., Quicksilver deposits in Nevada: Univ. Nev. Bull., vol. 38, no. 5, p. 168, December 1944.

---

that the localization of cinnabar was probably controlled by a pre-existent lead-zinc ore body.

The old Northern stope is about 8 feet wide, 75 feet long and extends 70 feet up dip from the 30-foot level. Ore in this stope occurred as veinlets and disseminated crystals of cinnabar in a zone of crushed limestone conglomerate between two south-dipping faults.

The Young-Macabee stope, the last stope discovered during World War II work, is also controlled by two south-dipping faults. These faults, though similar, are not the same ones that controlled the Northern stope. The Young-Macabee stope extends about 50 feet up dip from the 30-foot level, is about 5 feet wide and 90 feet long. The ore, similar to that in the old Northern stope, was also in limestone conglomerate.

Some ore was recently mined from the West stope on the Adit level. This stope is on the same fault zone as the Young-Macabee stope and appears to be the downward continuation of the same pinching and swelling ore body. Several tons of furnace grade ore still remain in this ore body, beneath the track on the south side of the drift (see fig. 2).

Total recorded production from the Red Bird mine is about 2,270 flasks of mercury. Production records for the individual stopes are not available; it is estimated that the ore averaged 20 pounds or more of quicksilver per ton of rock.

SAMPLING

Five samples were taken at and near the faces of the west drifts on the main and 30-foot levels as shown on fig. 2 and described as follows:

Sample No.	Width Feet	Lbs. Hg/ton	Description
168	3.5	2.1	Bottom 12 ft. winze 30 foot level under flat fault, mud gouge and breccia, little HgS in white lime.
169	1.5	3.7	Oxidized gouge material along fault 30 foot level.
170	2.0	*0.1	Face NW heading 30 foot level, gouge material slightly recalcified, no HgS noticed.
171	1.3	0.1	Floor and face W heading, occasional specks of HgS in white gouge material.
172	2.2	*0.1	Face haulage level, no HgS noted in oxidized gouge, black brecciated area on either side of gouge.

The low values shown by the assays do not prove or disprove this part of the mine, but they indicate that cinnabar mineralization is present in varying quantities along the mineralized structure to the west.

ORE RESERVES

Measured reserves of about 50 tons of ore ranging from 10 to 20 pounds of quicksilver per ton are scattered through the old workings as pillars. Indicated reserves of about 80 tons of 10 to 20 pound rock are in the block measuring 40 feet long, 1 foot wide and about 20 feet along the dip of the structure, which lies on the south side of the West stope on the Adit level. Inferred reserves of a few hundred tons of high grade ore (20 to 30 pounds per ton) may exist in the fault zone which cuts limestone conglomerate and strikes almost west beyond the westernmost workings into the area to be explored.

PROPOSED EXPLORATION

The applicant's proposed exploration program consisted of drifting and crosscutting 500 feet to the west to extend the 30 foot level drift along the mineralized fault zone, raising 150 feet and sinking a 50 foot winze along the most favorable mineralized showings exposed by the drift. The applicant's objective is to drift west along the structure to determine the size and grade of the mineralized zone. If a sufficient tonnage of furnace grade ore is delineated as a result of this work the applicant plans to erect a furnace on the property. The ground which would be explored, and would be subject to royalty payments to the Government, is shown on fig. 2. The old workings east of the north-south line (at the west end of the Adit level drift) would be excluded from the project area and royalty payments.

The applicant's proposal for exploratory drifting along the mineralized structure is sound in that he would be exploring ground with the same geological setting as the Northern and the Young-Macabee ore bodies, both of which were localized in similar zones of crushed limestone conglomerate between two south-dipping faults.

A revised two-stage program set up on a cost per foot basis was suggested to the applicant by the DMEA Field Team wherein all the work would be done on the Adit level. In Stage I the Adit level drift would be extended 250 feet west (fig. 2) to explore the mineralized zone. If favorable showings were exposed during Stage I, and if further exploratory work is justified, a second stage consisting

of an additional 250 feet of drifting to the west and 100 feet of raising on the best showings would be approved. The applicant agreed to the revised program.

Diamond drilling was also discussed with the applicant and it was decided that underground work would be the most practical method of exploration because of the spotty nature of this deposit.

EXPLORATION COSTS

The total cost of the project was estimated by the applicant to be $19,500, of which the Government would share 75%, or $14,625, and was summarized as follows:

1.	500 feet of drifting on vein system and crosscutting veins	$29.00/ft.	$14,500.00
2.	150 feet of raise	$20.00/ft.	3,000.00
3.	50 feet of sinking	$40.00/ft.	2,000.00
			$19,500.00

The operator listed the following equipment which would be used to provide his share of the costs:

1 Compressor - 315 cu.ft. - Ingersoll-Rand
1 Drifter - Gardner-Denver
1 Stoper - Ingersoll-Rand
2 Jackhammers (small)
5 Bars and arms
1 Tugger (single drum) - Ingersoll-Rand
3 Mine cars
300 ft. Air hose
300 ft. Water hose
Steel and bits for above equipment
1 Truck - 1½-ton Ford 1947
1 Truck pickup - Dodge
All necessary small hand tools and mechanical tools

The revised program recommended by the examiners is itemized as follows:

Stage I. Drift northwesterly along the fissure contact not to exceed 250 feet at $29.00/ft....$ 7,250.00

If conditions appear favorable for discovery of additional ore, Stage II should be undertaken, on the written approval of the Govt.

Stage II. a. Continue the Northwest drift an additional 250 feet at $29.00/ft..... 7,250.00

b. Raise on the most favorable showing along the drift not to exceed 100 feet at $25.00/ft..... 2,500.00

Two raises on favorable showings could be extended on the verbal approval of the DMEA field representative, the total of which would not exceed 100 feet.

$16,900.00 ? 17,000.00

Equipment to be used by operator:	Est. value
1 Air compressor & gasoline motor, 315 c.f.m. (old).....	$ 3,300.00
1 Liner G.D.S-100 and steel with 6' bar & arm (old).....	500.00
1 Stoper I.R. 58 plus steel.....	300.00
1 Jackhammer G.D. plus steel.....	150.00
1 Tugger I.R. (single drum) with cable	150.00
50-ft. Water hose (new).....	20.00
150-ft. Air hose (new).....	75.00
2 Mine cars (15 cu.ft. cap.) at $150	300.00
1 Dodge pickup truck, 1951	1,200.00
1 Ford truck, 1947 - 1½ ton (part time).....	800.00
3 Water tanks, each 50 gal.	50.00
6 Bits tungsten carbide inserts at $35.(?).....	210.00
250 ft. rail and fishplates, 20 lbs. at $200/ton	350.00
250' 2½" Airline at $.50/ft.	125.00
250' 3/4" Waterline at $.20/ft.	50.00
	$ 7,580.00

Depreciation 60 months ..... $126.33 per month

Breakdown of drifting costs

(Est. 3 months to drift 250 feet--3 men--or 3.5' day)

Supervision at $500/mo. (also works as part-time miner).	$1,500.00
1 Miner at $2.00/hr. - 78 days at $17.50/day	1,365.00
1 Trammer at $1.50/hr.- 78 days at $13.00/day	1,014.00
Operating materials and supplies:	
Powder, fuse and caps at $3.00/ft.	750.00
Gasoline, oil and lubricants at $1.00/ft.	250.00
Drill steel and bits (replacements)	250.00
Operating equipment:	
Ties	100.00
Equipment depreciation - $126.33/mo.	379.00
Maintenance and repairs	500.00
New buildings, improvements - None	
Miscellaneous:	
Analytical work - 25 samples at $3.00	75.00
Compensation, liability ins. and payroll taxes	285.48
Contingencies - 10%	645.00
	$7,113.48

$28.45 rounded to $29.00/ft.

Breakdown of raising costs

(Est. 1 month completion time - 100 feet of raise - 5.0'/day)

Labor (based on previously determined values)	$1,293.00
Powder fuse caps	300.00
Gasoline, oil and lubricants	100.00
Drill steel and bits	100.00
Equipment depreciation	120.50
Maintenance and repairs	200.00
Compensation, liability ins. and payroll taxes	107.16
Contingencies - 10%	222.00
	$2,442.66

$24.40 rounded to $25.00/ft.

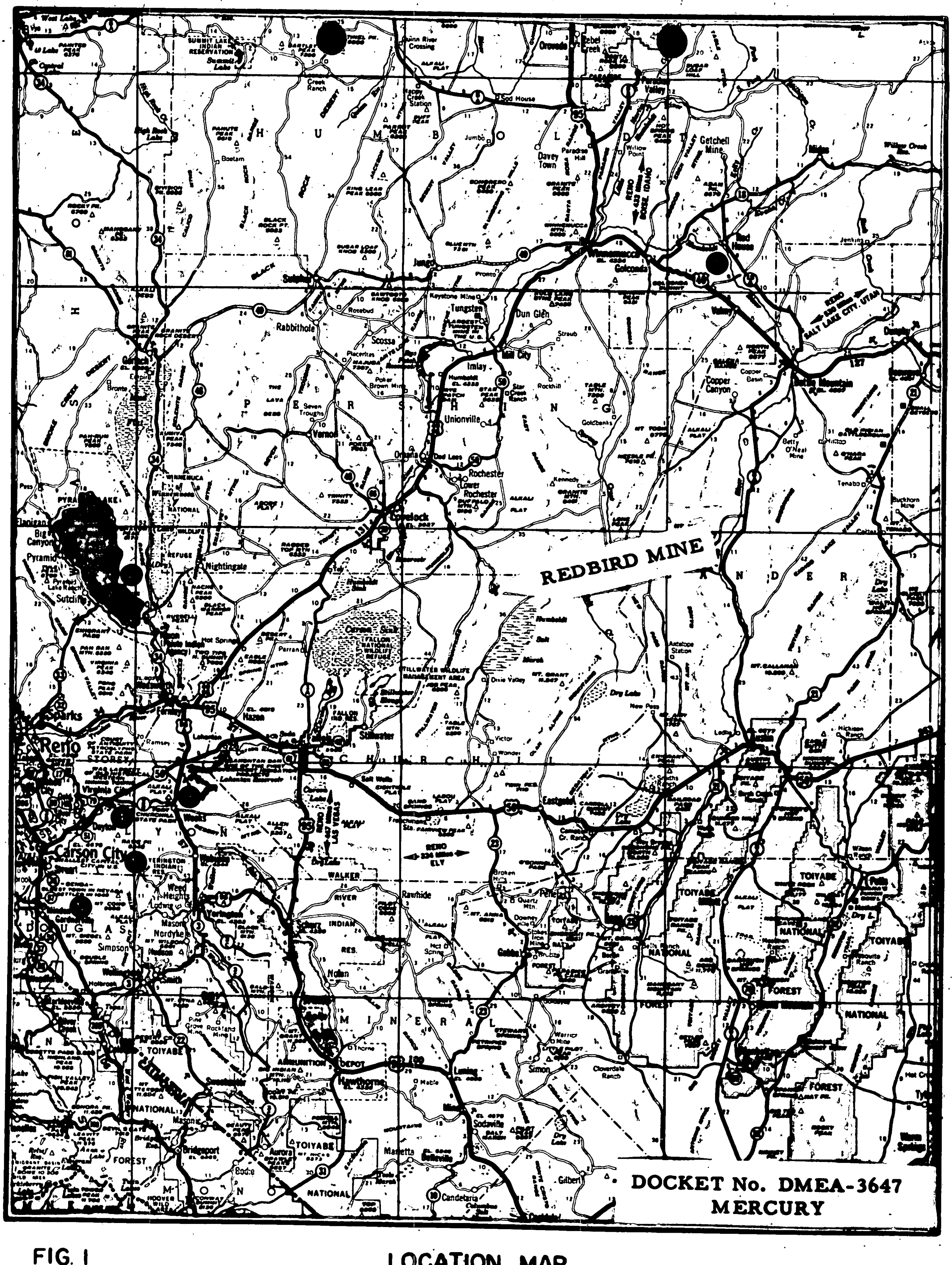
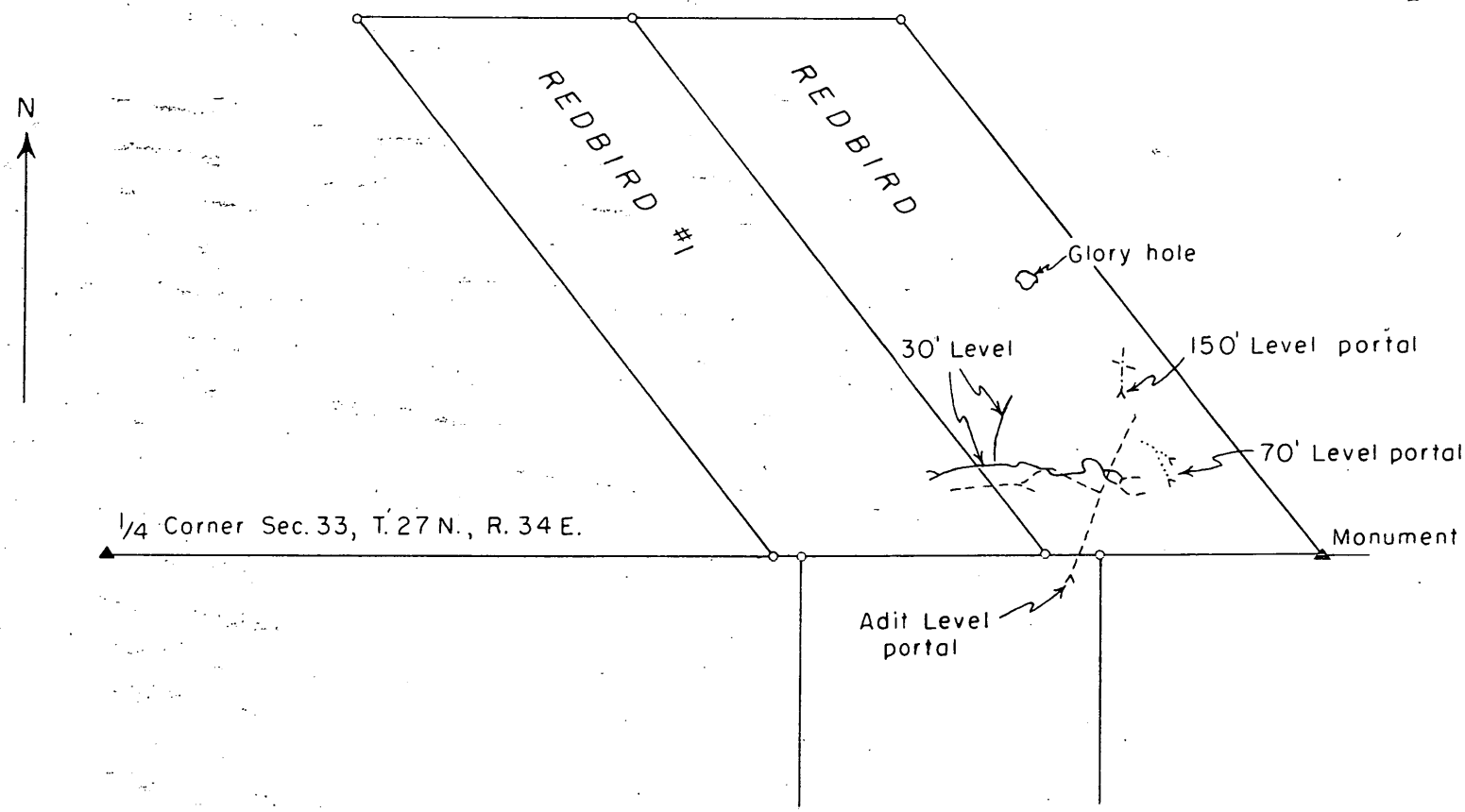


FIG. I

LOCATION MAP



CLAIM MAP, REDBIRD QUICKSILVER MINE
PERSHING COUNTY, NEVADA

400 0 400 800 Feet

Figure 3

Surname 700

Ellis
Selfridge
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 10 1955

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

Dear Mr. Ricker:

The subject application is referred to Region II Field Team for investigation, a field examination if deemed advisable, and recommendation. A copy of the application was forwarded to your office on January 25, 1955.

Enclosed are copies of memoranda from E. L. Newcomb, dated February 3, and Helena M. Meyer, dated February 8, 1955, members of the Mercury Commodity Committee.

You will note that the application is deficient in that the accompanying map does not properly reveal the proposed work nor the reason therefor, nor does the application show a detailed cost estimate. However, in the light of past production from the property, it seemed advisable in the interest of time, to forward the application to the Field Team and not write the Applicant for this additional information.

We have received two letters from members of Congress inquiring about the application and copies of our replies were forwarded to you.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

EWEllis:am
2-9-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. H. M. Meyer, Rm. 2623
T. H. Kiilsgaard, Rm. 5224
Code 700
~~DMEA-Field-Team-Region~~

R.C.R.

Surname 700

Ellis
Hedges
Kiilsgaard
Selfridge
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 10 1955

Mr. C. A. Coppin
Lovelock, Nevada

Re: Docket No. DMEA-3647 (Mercury)
Redbird Quicksilver Mine
Pershing County, Nevada

Dear Mr. Coppin:

The application for assistance in exploring your property in Pershing County, Nevada, under the above-captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region II at the following address:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

EWEllis:am
2-9-55
cc to: Admr. Reading File
Docket
Hon. George W. Malone
Hon. Clifton Young
Code 700
DMEA Field Team, Region II(2)

R.C.J.

2/8/55 gfa

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

February 8, 1955

Memorandum

To: E. W. Ellis - DMEA

From: Helena M. Meyer, Bureau of Mines

Subject: DMEA Docket 3647, C. A. Coppin, Red Bird Mine, Pershing County, Nevada, $19,500 (mercury)

The mine has been operated under a number of names; it had its most concentrated production in World War II. According to Bailey and Phoenix of the U. S. Geological Survey in University of Nevada Bulletin 38, p. 167, the mine produced 1,463 flasks of mercury to the end of 1943. To the end of 1953 less than 800 additional flasks had been produced, but prices of mercury during most of the period had not been high enough to encourage production at domestic mines.

The applicant proposes to do 500 feet of drifting, 150 feet of raises, and 50 feet of sinking, on a contract basis.

According to the application, the applicant has had practical mining experience. He proposes to pay his share of expenses by the use of equipment, said to be in good condition, on the property.

Past records would make it appear that the mine may be a favorable area in which to search for mercury, but before the project can be approved I recommend that a field team review of the proposal be obtained, based either on an examination of the property or on first-hand knowledge already available in the regional office.

Helena M. Meyer

Helena M. Meyer

Copy to: Division of Minerals
Branch of Base Metals
H. M. Meyer
F i l e s

Surname 700

Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 7 1955

Hon. George W. Malone
United States Senate
Washington 25, D. C.

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

My dear Senator Malone:

Reference is made to your letter of February 2 with which you enclosed copy of a letter dated January 29, 1955, from Mr. C. A. Coppin, inquiring as to the status of the above-docketed application.

This is to inform you that said application was received on January 21, 1955, and is presently being studied by members of our Mercury Commodity Committee. As soon as their comments are received by the Rare and Miscellaneous Metals Division of this Agency, the Division will take immediate steps to further process the application. Usually the commodity group takes only a few days in which to submit their findings.

For your information, we received a similar inquiry from Congressman Clifton Young on February 1, to which reply was made on February 3.

I will be glad to advise you of the action taken in regard to this application.

Sincerely yours,

C. O. Mittendorf
Administrator

EWEllis:am
2-7-55
cc to: Admr. Reading File
Docket
Code 700
DMEA Field Team, Reg. II(2)

R.C.S.

2/7/55 glc

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Defense Minerals Administration
RECEIVED
FEB 4 1955

February 3, 1955

Re: DMEA-3647
C. A. Coppin
Red Bird Mine
Antelope Springs
District
Pershing Co., Nevada
$19,500 - Mercury

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant has proposed to further explore the Red Bird mine. The work would consist of 500 feet of drifting, 150 feet of raising and 50 feet of sinking(?).

The sketch map, attached to the application, does not clearly indicate where all the proposed work will be done. A part of the proposed drifting is roughly shown, but the remainder of the work does not appear on the map.

Information in our files suggests that some limited exploration may be warranted. However, a better map of the proposed work in relation to the old workings should be requested from the applicant. It would be also worthwhile to obtain assay certificates from currently productive parts of the mine or near headings of proposed exploration work.

I do not recommend a field referral until further data is received from the operator.

E. L. Newcomb

E. L. Newcomb

700

Surname copy

Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

FEB 3 1955

Hon. Clifton Young
House of Representatives
421 House Office Building
Washington 25, D. C.

Re: Docket No. DMEA-3647 (Mercury)
C. A. Coppin
Redbird Quicksilver Mine
Pershing County, Nevada

My dear Mr. Young:

Reference is made to your letter of February 1, inquiring as to the status of the above-docketed application.

This is to inform you that said application was received on January 24, 1955, and is presently being studied by members of our Mercury Commodity Committee. As soon as their comments are received by the Rare and Miscellaneous Metals Division of this Agency, the Division will take immediate steps to further process the application. Usually the commodity group takes only a few days in which to submit their findings.

I trust this is the information you desire.

Sincerely yours,

C. O. Mittendorf

Administrator

EWEllis/gla
2-2-55
cc to: Admr.'s Reading File
Docket file
Code 700
DMEA Field Team, Region II (2)

R.L.S.

700

JAMES E. MURRAY, MONT., CHAIRMAN
CLINTON P. ANDERSON, N. MEX.
RUSSELL B. LONG, LA.
HENRY M. JACKSON, WASH.
JOSEPH C. O'MAHONEY, WYO.
W. KERR SCOTT, N. C.
ALAN BIBLE, NEV.
RICHARD L. NEUBERGER, OREG.
EUGENE D. MILLIKIN, COLO.
GEORGE W. MALONE, NEV.
ARTHUR V. WATKINS, UTAH
HENRY C. DWORSHAK, IDAHO
THOMAS H. KUCHEL, CALIF.
FRANK A. BARRETT, WYO.
BARRY GOLDWATER, ARIZ.

United States Senate

COMMITTEE ON
INTERIOR AND INSULAR AFFAIRS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 4 1955

February 2, 1955

re: DMEA 3647
Redbird Quicksilver Mine

C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Mittendorf:

Enclosed is a copy of a self-explanatory letter received from Mr. C. A. Coppin of Lovelock, Nevada, regarding his application for a defense exploration loan on the Redbird Quicksilver Mine in the Antelope District, Pershing County, Nevada.

It would be appreciated if you would check on this application and advise me of any progress made toward disposition of this application.

Your cooperation in this matter is greatly appreciated.

Sincerely yours,

George W. Malone

George W. Malone, USS

Encl.

COPY COPY

Lovelock, Nevada
January 29, 1955

DEPARTMENT of Defense Minerals
RECEIVED
FEB - 4 1955

Senator George W. Malone
Washington, D. C.

Dear Sir:

I have applied for a defense exploration loan on the Redbird Quicksilver Mine in the Antelope District, Pershing County, Lovelock, Nevada. I have a five year lease from Llewellyn Young on this mine and have shipped several bottles of quicksilver in the last month.

This mine needs considerable exploration work as the present ore body is about depleted. This mine has been a famous producer in the past and has great possibilities for the future if we can get the necessary finance for the exploration work.

The writer of this letter was Superintendent for the Harold's Club Mining Company when they had it leased during World War II. He was the one who found the ore body which produced 2,250 bottles of quicksilver bringing approximately $450,000 at $200 per flask, the price at that time.

I have a letter from Mr. Llewellyn Young attached to the application, approving the loan.

I would appreciate it if you would contact the Defense Mineral Exploration Administration and refer to Subject: DMEA 3647 Re: Exploration Administration Assistance Redbird Quicksilver Mine.

I feel that a word of recommendation from you would be of great assistance in securing this loan.

Very truly yours,

/s/ C. A. Coppin

2/2/55 gla

CLIFTON YOUNG
REPRESENTATIVE AT LARGE
NEVADA

WASHINGTON ADDRESS:
421 HOUSE OFFICE BUILDING

Congress of the United States
House of Representatives
Washington, D. C.

COMMITTEES:
INTERIOR AND INSULAR AFFAIRS
EDUCATION AND LABOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
RECEIVED
FEB 2 1955

February 1, 1955

Mr. C.O. Mittendorf
Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D.C.

Dear Mr. Mittendorf:

Thank you very much for your very helpful letter of January 31 concerning the number of applications filed with your agency from the State of Nevada. This information is most appreciated.

I have just received an inquiry from a constituent concerning the Redbird Quicksilver Mine, Lovelock, Nevada, DMEA 3647.

C.A. Coppin,

Any information you may furnish me regarding the status of this application will be appreciated.

With kind regards, I remain

Sincerely,

Cliff Young

Cliff Young
Member of Congress

CY/b

Mr. C. A. Coppin
Lovelock, Nevada

January 25, 1955
Subject: DMEA 3647
Re: Exploration Assistance
Redbird Quicksilver Mine

Dear Mr. Coppin:

The receipt of your application dated January 3, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3647 and referred to the Rare and Miscellaneous Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

January 25, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

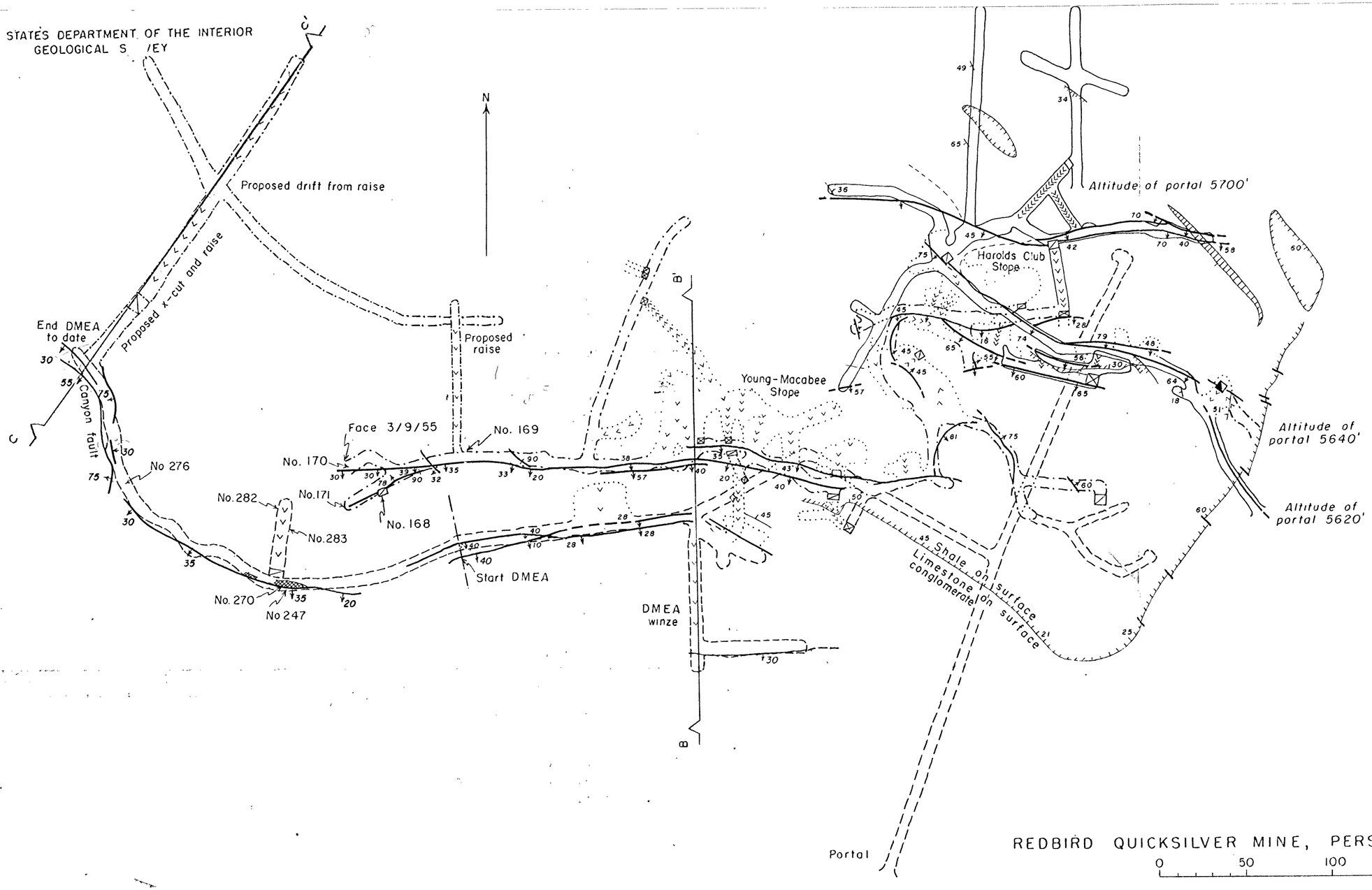
DMEA - 3647 C. A. Coppin

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

P.S. Will you please see that all copies of applications are stamped with the date received, before mailing to the Washington office.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL S /EY

DMEA 3647
Idm E-838
(MERCURY)



EXPLANATION

Shale

Limestone and limestone conglomerate

Contact on surface showing dip

Fault, showing dip
Dashed where approximately located

Strike and dip of beds

Outline of stope

Chevrons point down incline
5' vertical intervals

Head of raise or winze

Foot of raise or winze

Head of shaft

Haulage level

30 feet above haulage level

70 feet above haulage level

No. 168
Sample number

REDBIRD QUICKSILVER MINE, PERSHING COUNTY, NEVADA

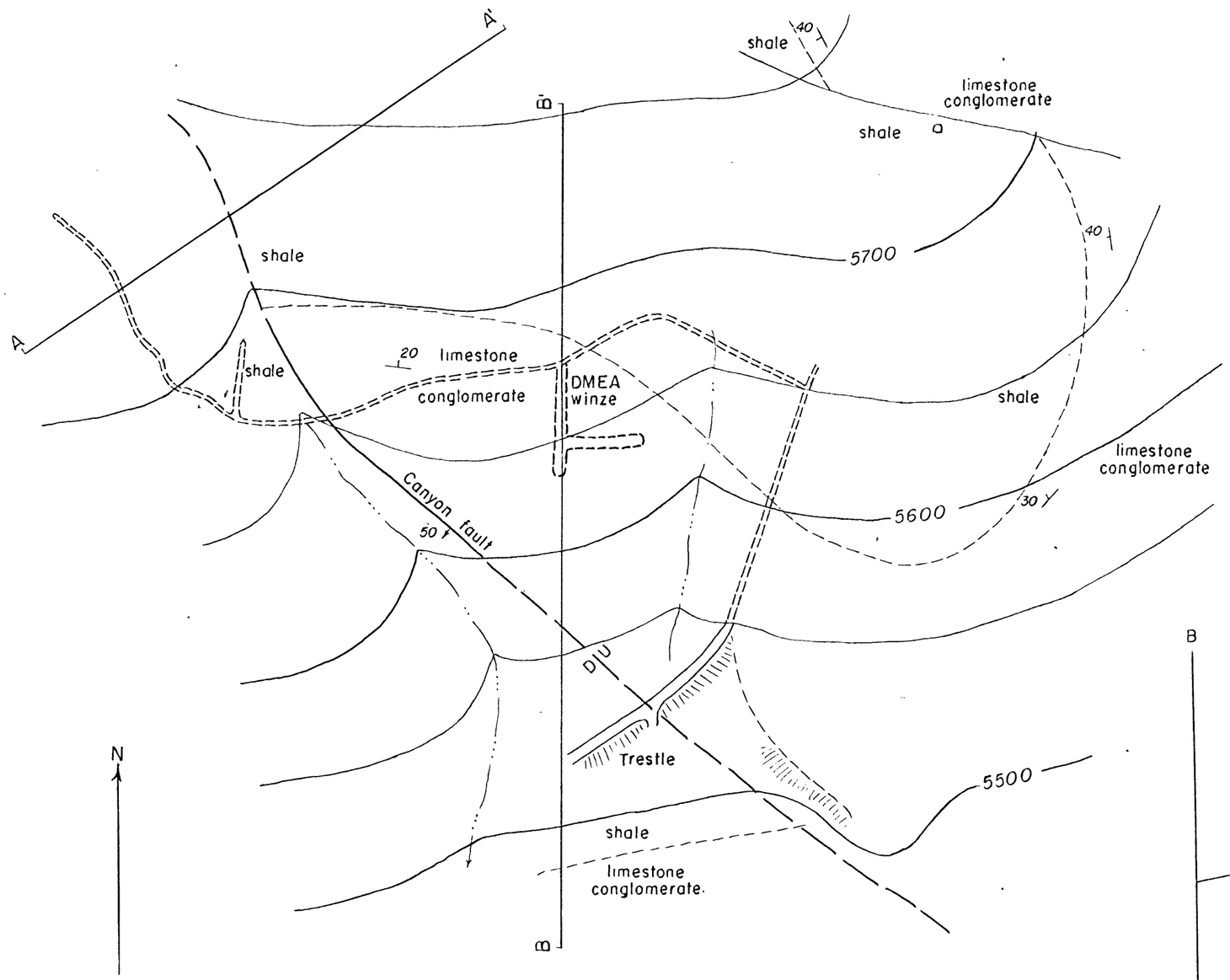
0 50 100 150 Feet

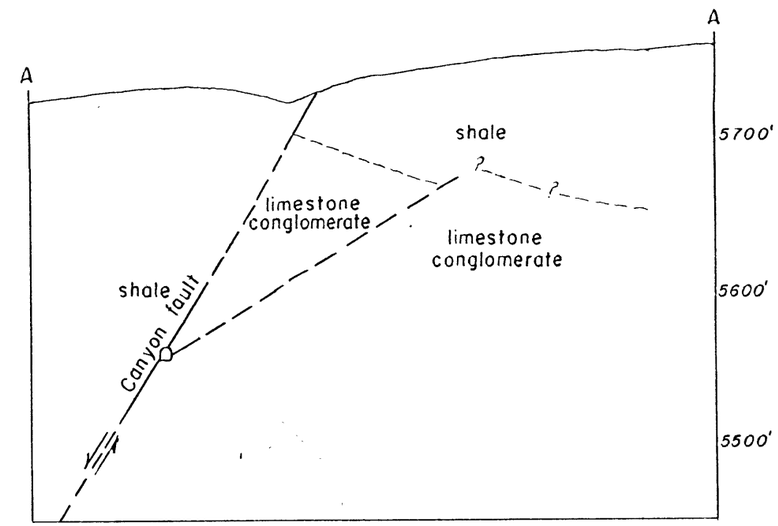
See Sheet 2

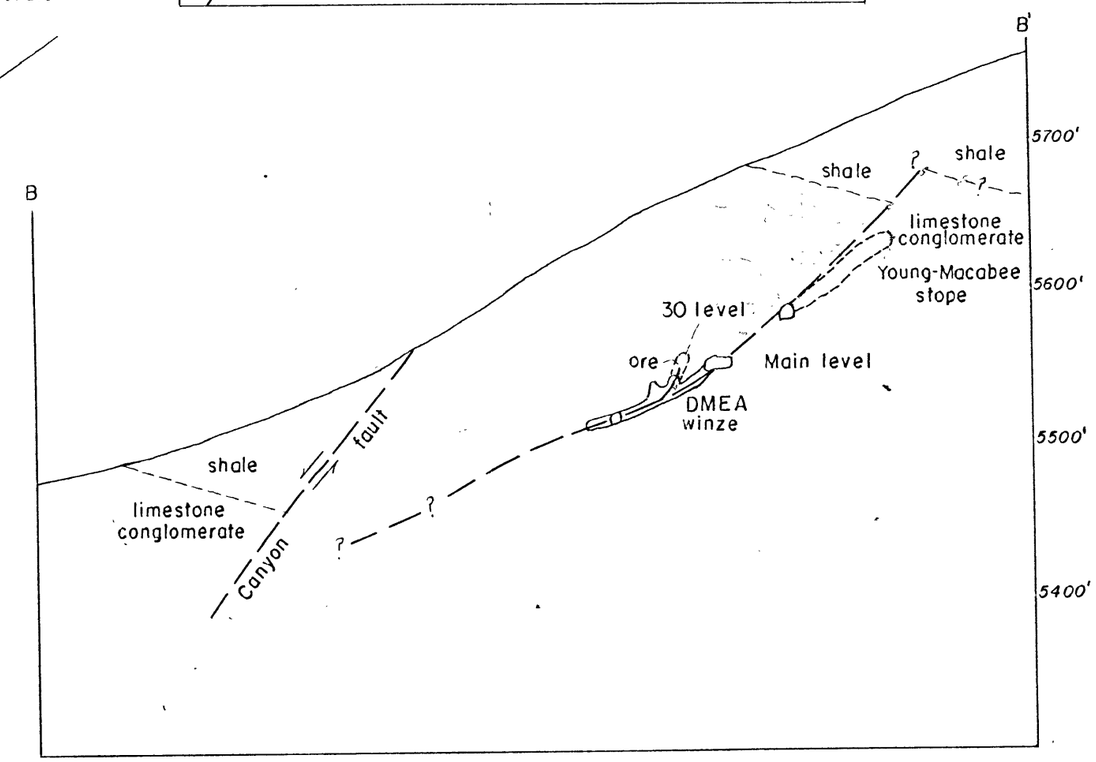
Figure 4

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
Idm E-838
(MERCURY)



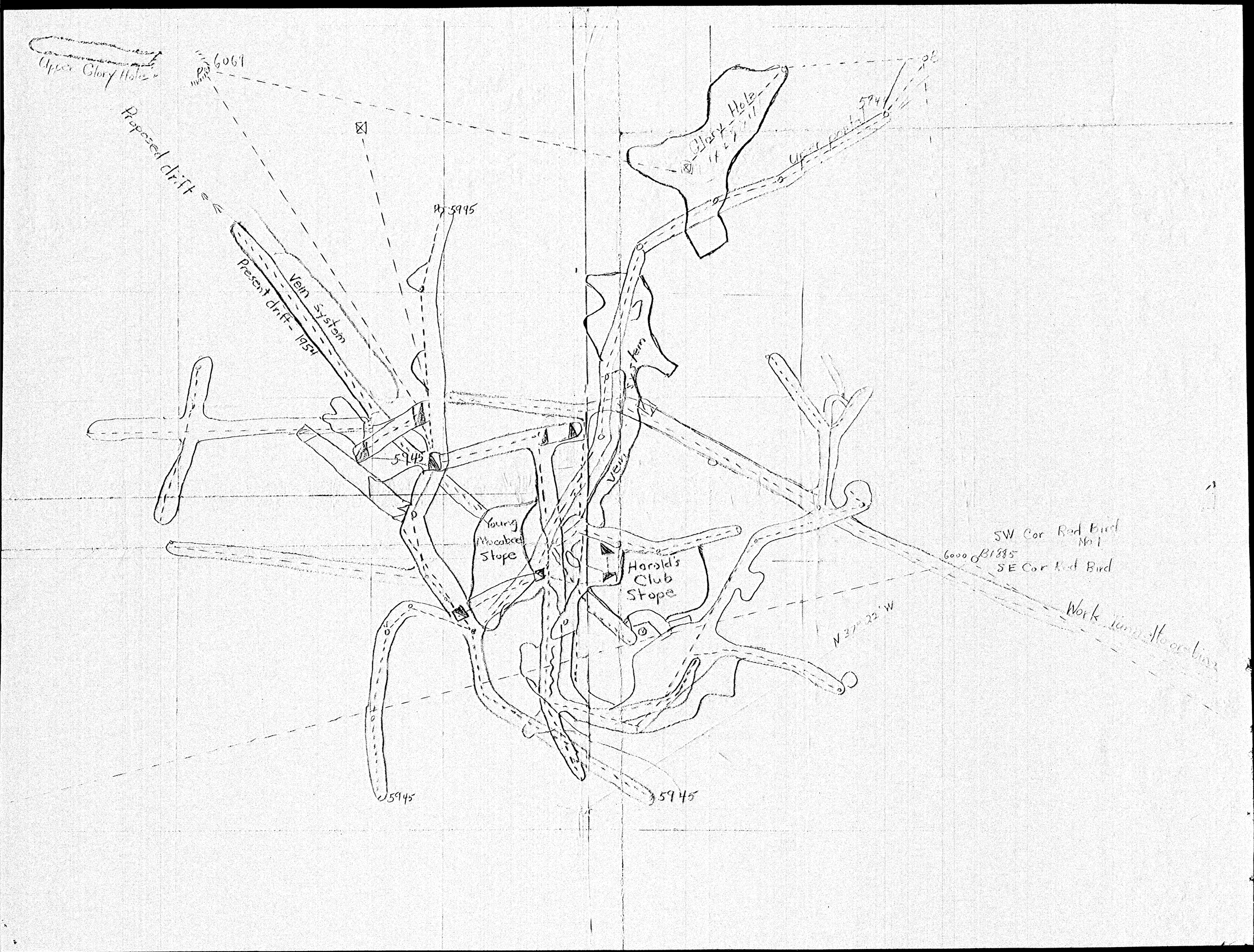




REDBIRD QUICKSILVER MINE, PERSHING COUNTY, NEVADA

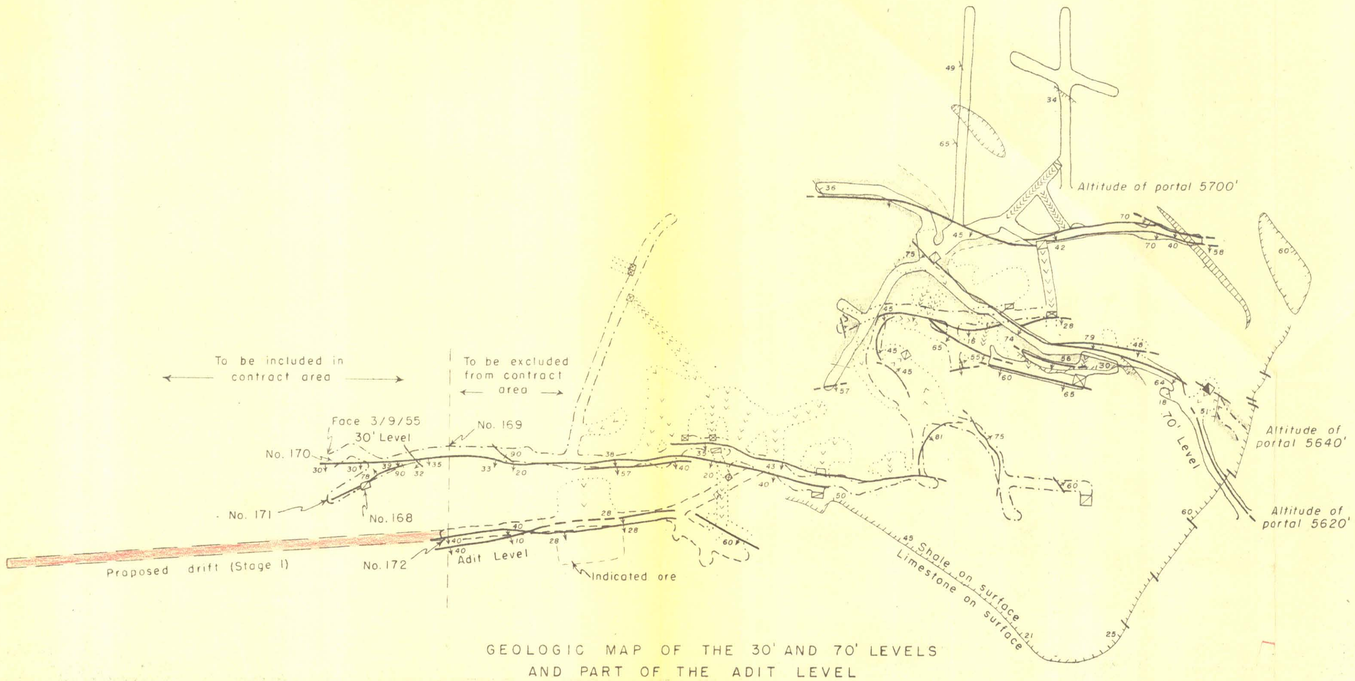
0 100 200 300 Feet

Figure 3

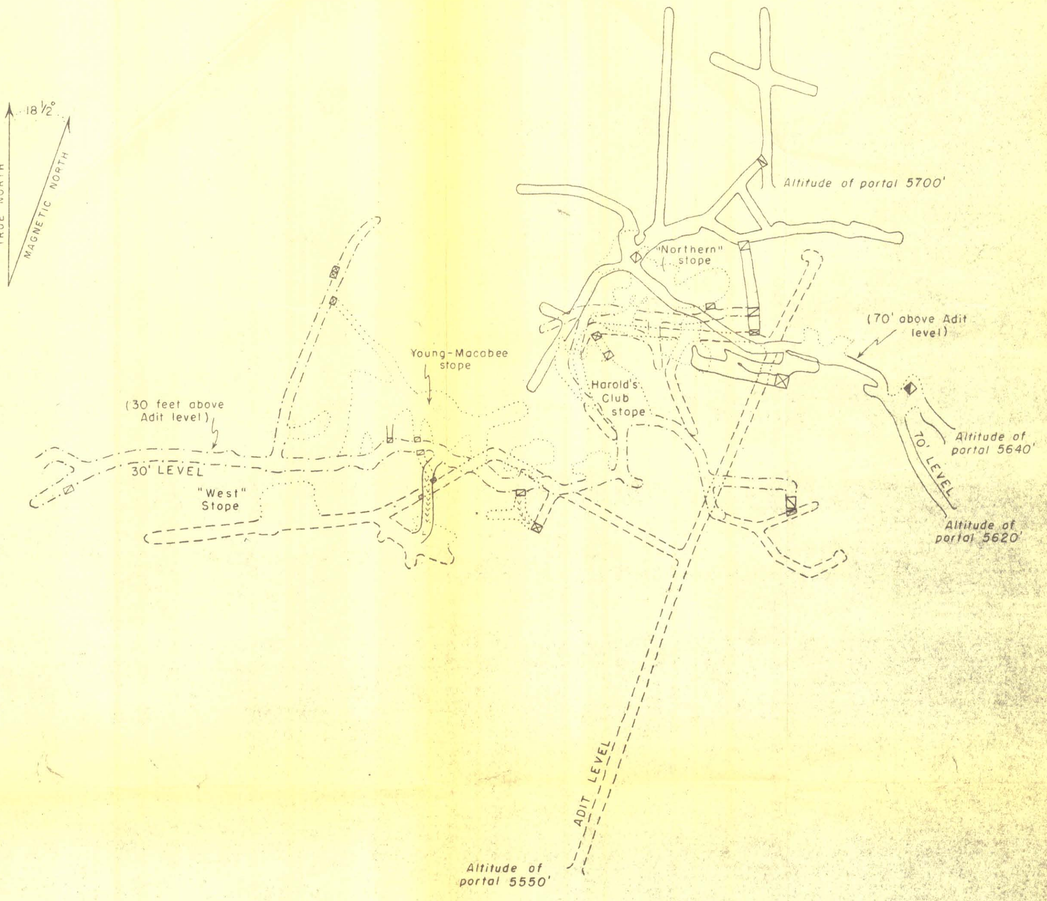

Upper Glory Hole
6069
Proposed drift
Present drift 1954
Vein system
5995
5945
Glory Hole
Upper Level
5944
Vein system
Young Maccabees Stope
Harold's Club Stope
SW Cor Red Bird No 1
6000
B1885
SE Cor Red Bird
N 37° 22' W
Work Tunnel Heading
5945
5945

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

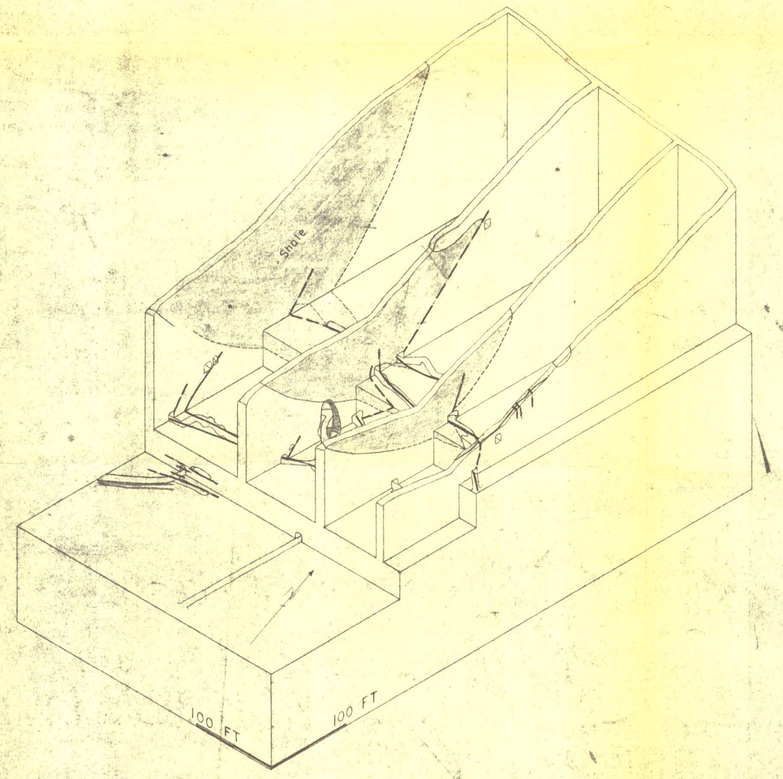
DMEA 3647
(MERCURY)



GEOLOGIC MAP OF THE 30' AND 70' LEVELS
AND PART OF THE ADIT LEVEL



PLAN OF THE UNDERGROUND WORKINGS



EXPLANATION

Shale

Limestone and limestone conglomerate undifferentiated

Contact on surface showing dip

Fault, showing dip
Dashed where approximately located

Strike and dip of beds

Outline of stope

Chevrons point down incline. 5' vertical intervals

Head of raise or winze

Foot of raise or winze

Head of shaft

Haulage level

30 feet above haulage level

70 feet above haulage level

No. 168
Sample number

Base from Univ. Nev. Bull. vol. 38, no 5, pl. 22, 1944
with additions by E. H. Pampeyan, 1955

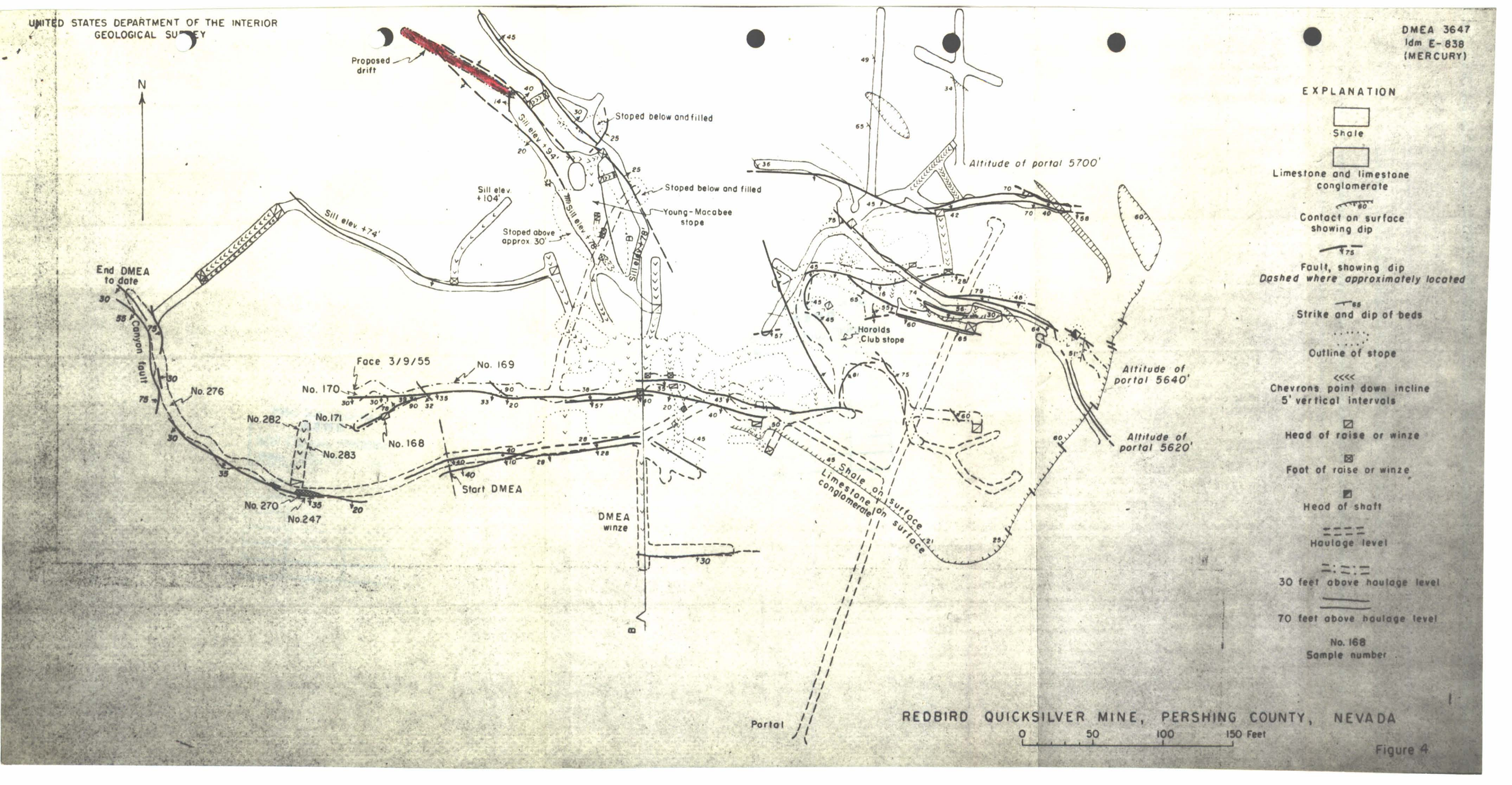
GEOLOGIC MAP AND BLOCK DIAGRAM OF THE RED BIRD MINE
PERSHING COUNTY, NEVADA

50 0 50 100 150 200 FEET

Figure 2

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
ldm E-838
(MERCURY)

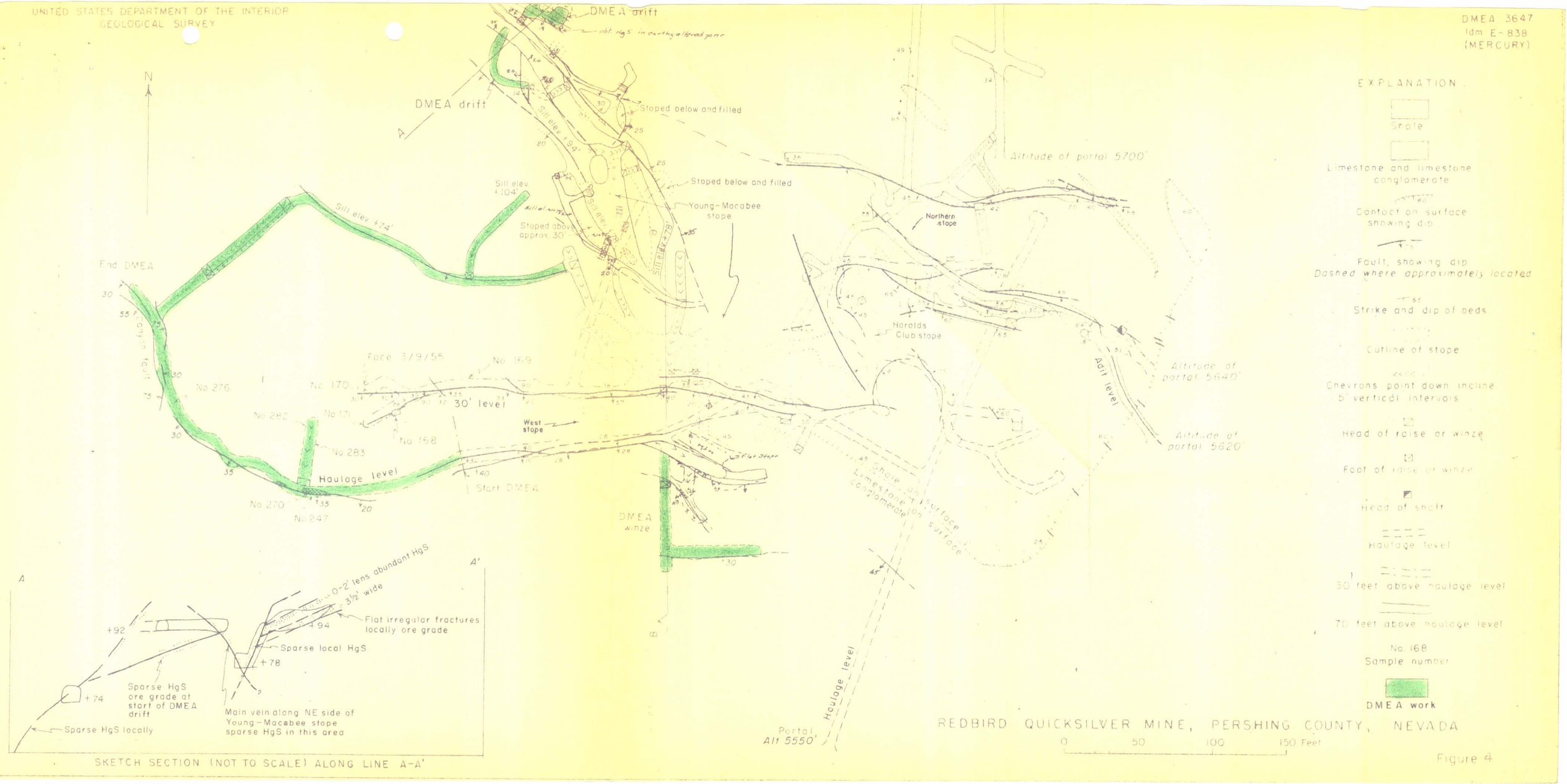


REDBIRD QUICKSILVER MINE, PERSHING COUNTY, NEVADA

Figure 4

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3647
Idm E-838
(MERCURY)



SKETCH SECTION (NOT TO SCALE) ALONG LINE A-A'

REDBIRD QUICKSILVER MINE, PERSHING COUNTY, NEVADA

Figure 4